

LEM Application Guide

3Q 2026 update



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Automotive

Energy Storage

- Fuel Cell Generator
- HV Battery Pack (shunt-based architecture)
- HV Battery Pack (standalone architecture)

Power Conversion

- Bidirectional OBC
- DC/DC Converters (HV/LV)

Power Distribution & Protection

- 48V Solid State Relay
- Fuse Box
- HV solid State Relay

Powertrain

- e-Compressor

Power Conversion

- Xin1 Converter

Powertrain

- e-Turbo Charger
- Excitation Rotor
- Traction Inverter

City & Infrastructure

EV Chargers

- EV Charger DC

Renewable

- Heat Pump
- HVAC
- PV (Solar) Power Conversion System
- PV (Solar) Power Conversion transformer-less with MPPT Chopper
- Wind Power Conversion System

Smart Grid

- Industrial AC Power Monitoring
- Low / Medium Voltage Substation Monitoring
- Low Voltage DC grid
- Medium Voltage DC Grid
- Utility Power Monitoring

Smart Metering

- DC Grid Solar Metering

Datacenters

AC-based Architecture

- Back-up Power Supply
- Cooling & HVAC
- Grid Infrastructure
- Power Conversion (PSU)
- Power Distribution

Full DC Architecture

- Cooling & HVAC
- Power Conversion (PSU)
- Power Distribution
- Solid state transformer (SST)

Partial DC Architecture

- Back-up Power Supply
- Cooling & HVAC
- Grid Infrastructure
- Power Conversion (PSU)
- Power Distribution

Home & Building

General

- White Goods
- Smart Home

Industrial

Automation

- Drives & Controls
- Industrial Power Supply
- Robotics and Multi-axis tools
- UPS

High Precision

- Factory Automation / STATCOM
- Power Analyzers

Medical

- MRT Power Supply

Rail Infrastructure

Trackside

- Point machine control
- Signal Control



Automotive

Energy Storage



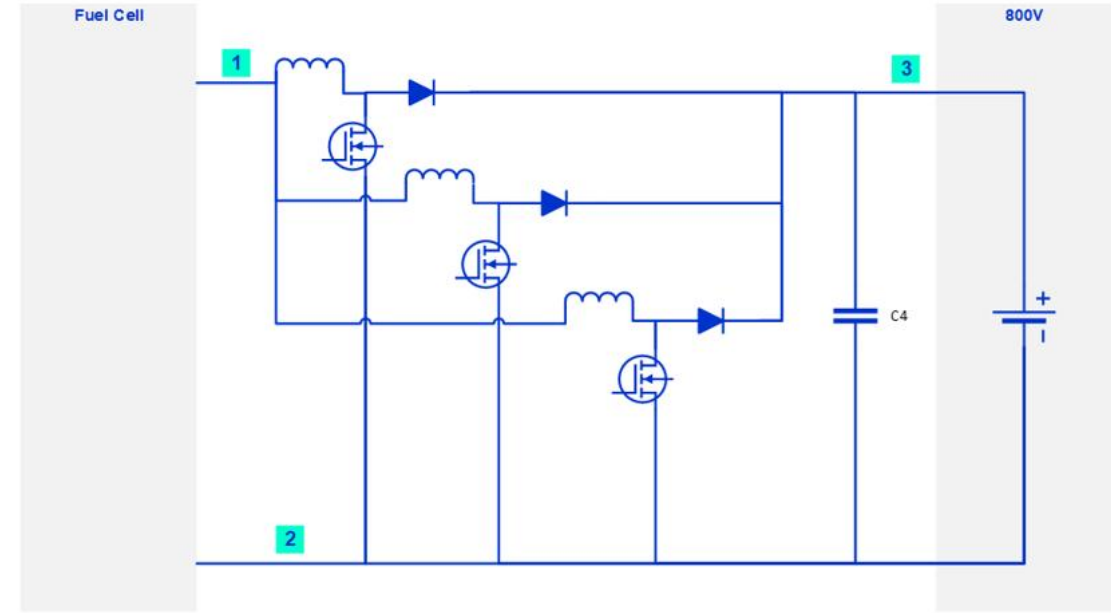
Automotive | Energy Storage

Fuel Cell Generator



Value Proposition

Enhance fuel-cell generator performance with precise current sensing—ensuring optimal stack control, higher efficiency, stable power delivery, and rapid protection. Achieve safer, cleaner, and more reliable electric power generation.



POWER CONVERSION & CONTROL SENSORS

Family	Family Description	Product	Position	Status
CAB	High Accuracy DC current sensor	CAB 500-C/SP5	1	Active - R
		CAB-SF 500-C	1	Active - R
		CAB 1500-000	1	Active - R
		CAB-SF 1500-000	1	Active - R
HSU	Hybrid AC and DC current sensor for battery	HSU00	2	Active - R
		HSU01	2	Active - R
		HSU03	2	Active - R
		HSU04	2	Active - R

R = Design Restrictable



Automotive | Energy Storage

HV Battery Pack (shunt-based architecture)



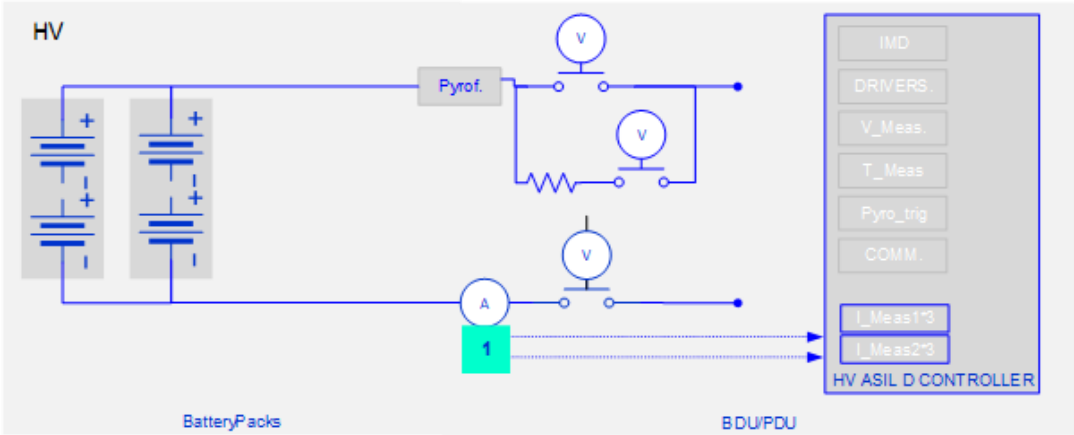
Value Proposition

Get functional safety with a 1% accurate bare shunt (ASIL C/D) and a 2% Hall sensor for heterogeneous redundancy (ASIL A/D), all in the same shunt form factor—adding independent current measurement without redesign.

POWER CONVERSION & CONTROL SENSORS

Family	Family Description	Product	Position	Status
HSU	Hybrid AC and DC current sensor for battery	HSU00	1	Active - R
		HSU01	1	Active - R
		HSU03	1	Active - R
		HSU04	1	Active - R

R = Design Releasable



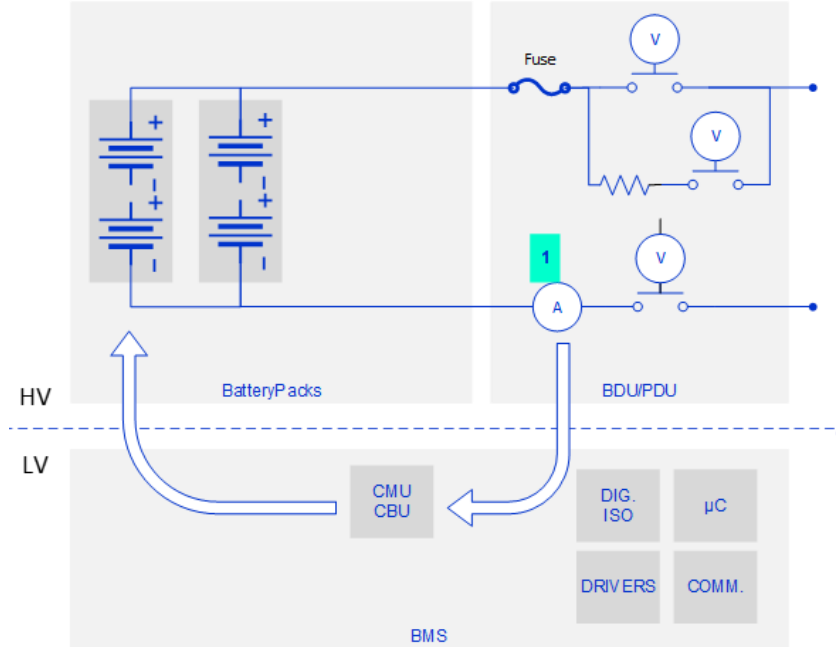
Automotive | Energy Storage

HV Battery Pack (standalone architecture)



Value Proposition

Deliver unmatched precision with <0.5% accuracy and proprietary error-correction IP. Enjoy stable performance with ultra-low offset across the full temperature range, plus robust CAN digital output and ASIL-C compliance for safe, reliable measurement in demanding systems.



POWER CONVERSION & CONTROL SENSORS

Family	Family Description	Product	Position	Status
CAB	High Accuracy DC current sensor	CAB 500-C/SP5	1	Active - R
		CAB-SF 500-C	1	Active - R
		CAB 1500-000	1	Active - R
		CAB-SF 1500-000	1	Active - R
DHAB	AC and DC current sensor	DHAB S/113	1	Active - R

R = Design Releasable



Automotive

Power Conversion



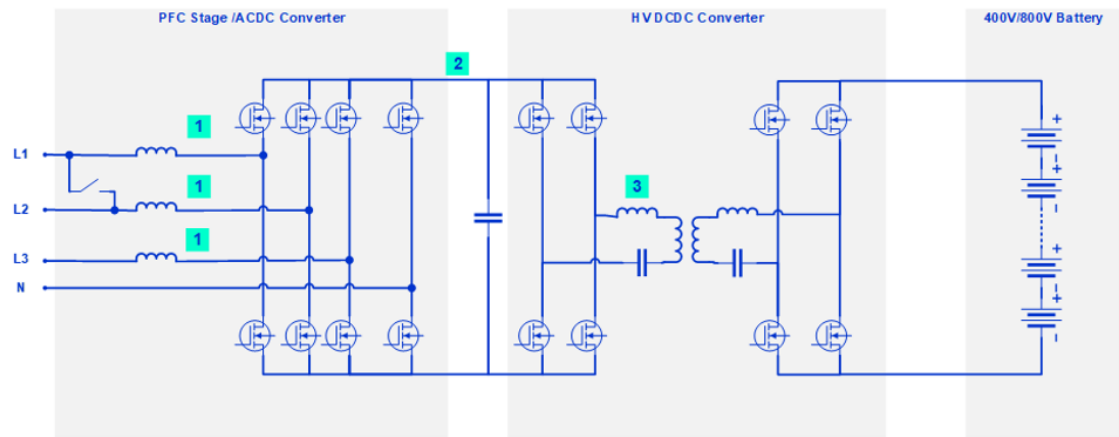
Automotive | Power Conversion

Bidirectional OBC



Value Proposition

LEM's CDT Type-B residual-current sensor delivers fast, precise leakage detection for safer OBCs. Automotive-grade and ASIL-B-ready, it ensures compliance with IEC 62672 and UL 2231 while supporting efficient, compact bi-directional charger designs.



INTEGRATED CURRENT SENSORS

Family	Family Description	Product	Position	Status
GXM	AC and DC integrated current sensor, SO10 package	GXM ANC 50-20 30010A	1	Coming soon - R
		GXM ANC 75-30 30010A	1	Coming soon - R
		GXM ANC 80-32 30010A	1, 2, 3	Coming soon - R
		GXM ANC 100-40 50010A	1	Active - R
		GXM ANC 110-44 30010A	1	Active - R
GXN	AC and DC integrated current sensor, SO16 package	GXN ANC 80-32 50011A	2, 3	Active - R

LEAKAGE CURRENT SENSORS

Family	Family Description	Product	Position	Status
CDT	High Accuracy AC and DC differential current sensor	CDT 0.3-S2/SP07	1	Active - R

R = Design Releasable



Automotive | Power Conversion

DC/DC Converters (HV/LV)



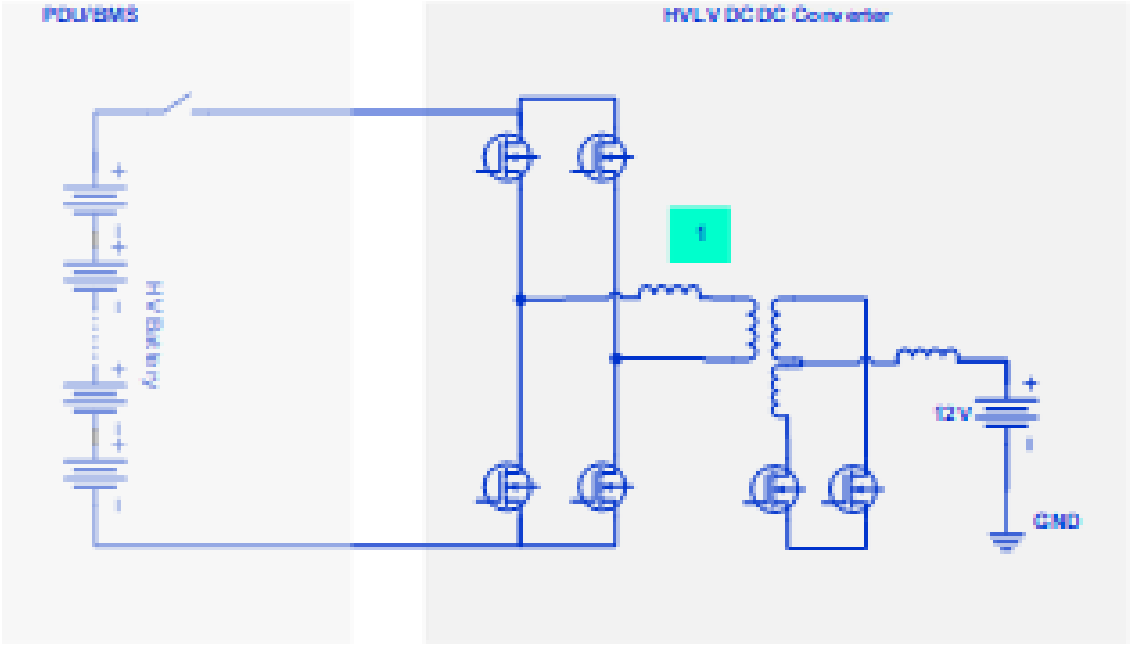
Value Proposition

LEM leads Residual Current Monitoring (RCM) innovation for on-board chargers by providing high-sensitivity leakage-current detection required for safe bidirectional charging. Its sensor technology supports multi-socket and multi-port OBC architectures through accurate and stable current measurement across all power paths. Compact IC-based current sensors integrate directly on the PCB, enabling precise real-time monitoring at safety-critical points within the OBC.

INTEGRATED CURRENT SENSORS

Family	Family Description	Product	Position	Status
GXM	AC and DC integrated current sensor, SO10 package	GXM ANC 80-32 30010A	1	Coming soon - R
		GXM ANC 50-20 50010A	1	Active - R
		GXM ANC 75-30 30010A	1	Coming soon - R
		GXM ANC 100-40 50010A	1	Active - R
		GXM ANC 110-44 30010A	1	Active - R

R = Design Releasable



Automotive

Power Distribution & Protection



Automotive | Power Distribution & Protection

48V Solid State Relay



Value Proposition

LEM's HSU hybrid shunt-plus-Hall sensor enables smarter HV switching by delivering isolated high-accuracy current monitoring in a compact, automotive-safe package. It simplifies BDU design, cuts cost and footprint, and supports top-level safety performance

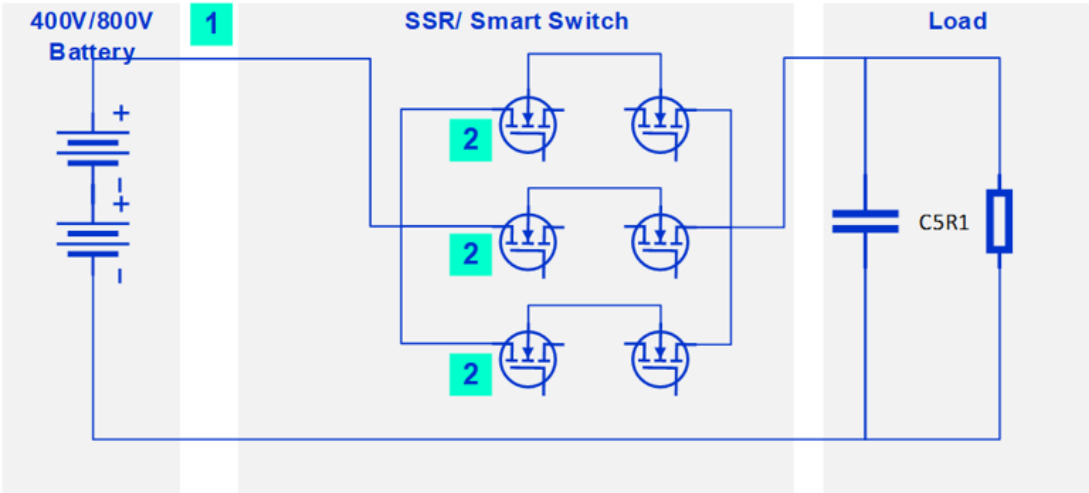
INTEGRATED CURRENT SENSORS

Family	Family Description	Product	Position	Status
GXM	AC and DC integrated current sensor, SO10 package	GXM ANC 50-20 30010A	2	Coming soon - R
		GXM ANC 75-30 30010A	2	Coming soon - R
		GXM ANC 80-32 30010A	2	Coming soon - R
		GXM ANC 100-40 50010A	2	Active - R
		GXM ANC 110-44 30010A	2	Active - R

R = Design Releasable

POWER CONVERSION & CONTROL SENSORS

Family	Family Description	Product	Position	Status
HSU	Hybrid AC and DC current sensor for battery	HSU01	1	Active - R
		HSU00	1	Active - R



Automotive | Power Distribution & Protection

Fuse Box



Value Proposition

LEM's HSU hybrid shunt-plus-Hall sensor enables smarter HV switching by delivering isolated high-accuracy current monitoring in a compact, automotive-safe package. It simplifies BDU design, cuts cost and footprint, and supports top-level safety performance

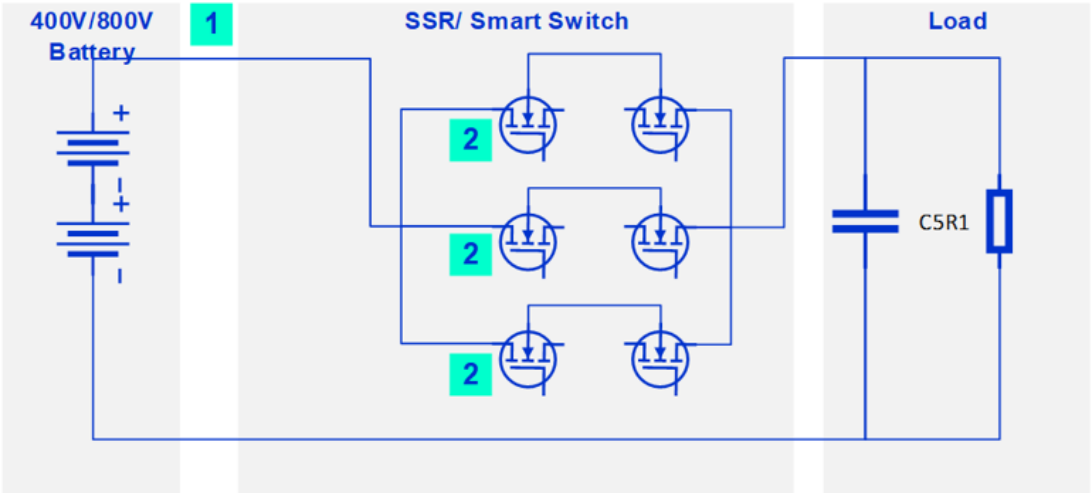
INTEGRATED CURRENT SENSORS

Family	Family Description	Product	Position	Status
GXM	AC and DC integrated current sensor, SO10 package	GXM ANC 50-20 30010A	2	Coming soon - R
		GXM ANC 75-30 30010A	2	Coming soon - R
		GXM ANC 80-32 30010A	2	Coming soon - R
		GXM ANC 100-40 50010A	2	Active - R
		GXM ANC 110-44 30010A	2	Active - R

R = Design Releasable

POWER CONVERSION & CONTROL SENSORS

Family	Family Description	Product	Position	Status
DHAB	AC and DC current sensor	DHAB S/124	1	Active - R
		DHAB S/137	1	Active - R
HSU	Hybrid AC and DC current sensor for battery	HSU01	1	Active - R
		HSU00	1	Active - R



Automotive | Power Distribution & Protection

HV solid State Relay



Value Proposition

LEM's HSU hybrid shunt-plus-Hall sensor enables smarter HV switching by delivering isolated high-accuracy current monitoring in a compact, automotive-safe package. It simplifies BDU design, cuts cost and footprint, and supports top-level safety performance

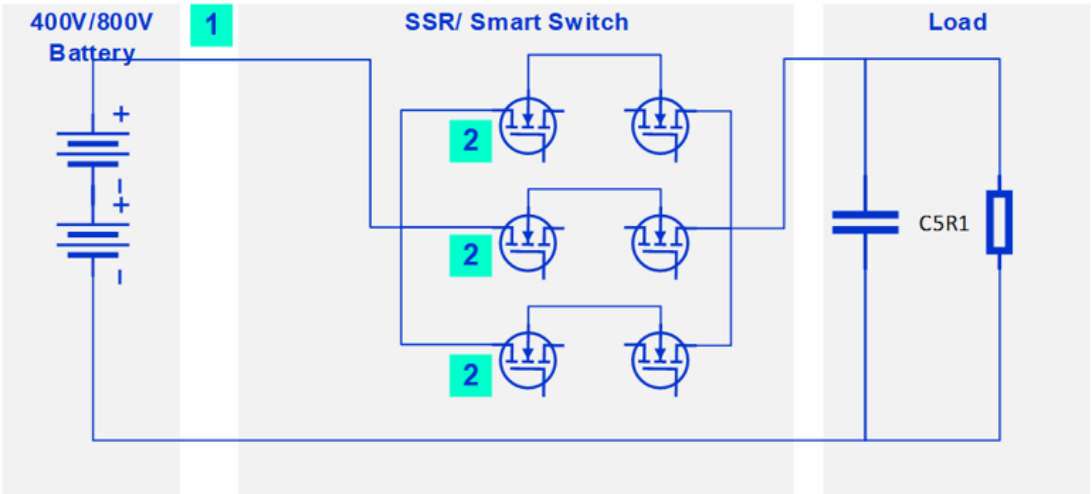
INTEGRATED CURRENT SENSORS

Family	Family Description	Product	Position	Status
GXM	AC and DC integrated current sensor, SO10 package	GXM ANC 50-20 30010A	2	Coming soon - R
		GXM ANC 75-30 30010A	2	Coming soon - R
		GXM ANC 80-32 30010A	2	Coming soon - R
		GXM ANC 100-40 50010A	2	Active - R
		GXM ANC 110-44 30010A	2	Active - R

R = Design Releasable

POWER CONVERSION & CONTROL SENSORS

Family	Family Description	Product	Position	Status
HSU	Hybrid AC and DC current sensor for battery	HSU01	1	Active - R
		HSU00	1	Active - R



Automotive

Powertrain



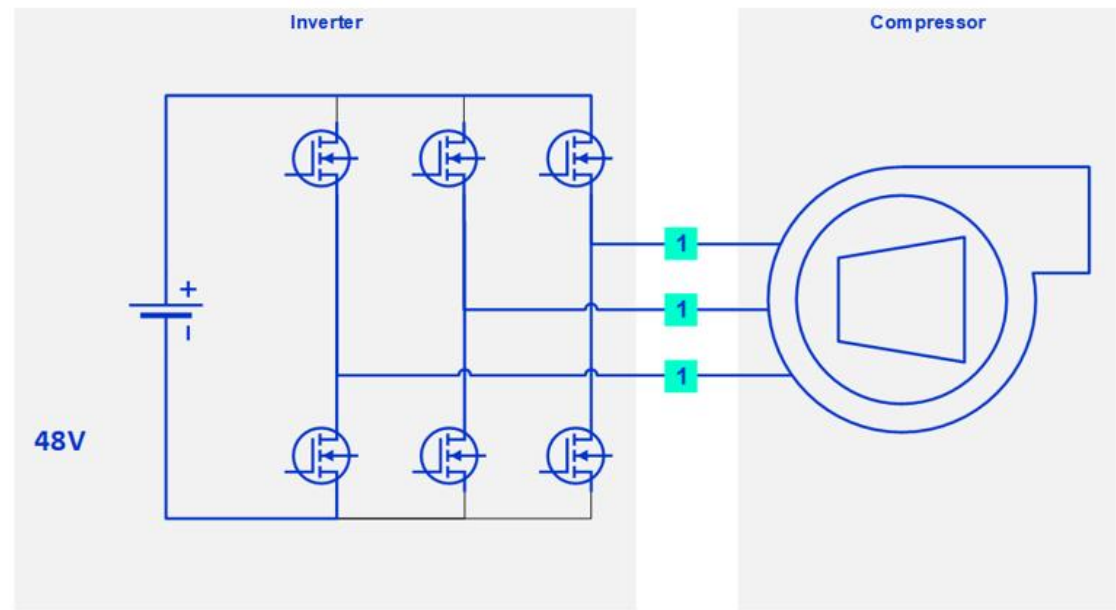
Automotive | Powertrain

e-Compressor



Value Proposition

Precise current sensing lets an e-Compressor high-speed electric motor for e.g.fuel cell control deliver instant boost, optimal control, and higher efficiency—enhancing responsiveness and protection in demanding power electronics systems.



INTEGRATED CURRENT SENSORS				
Family	Family Description	Product	Position	Status
GXM	AC and DC integrated current sensor, SO10 package	GXM ANC 50-20 30010A	1	Coming soon - R
		GXM ANC 75-30 30010A	1	Coming soon - R
		GXM ANC 80-32 50010A	1	Coming soon - R
		GXM ANC 100-40 50010A	1	Active - R
		GXM ANC 110-44 30010A	1	Active - R
GXS	AC and DC integrated current sensor, SO8 package	GXS ANF 10-4 50101A	1	Active - R
		GXS ANF 20-8 50101A	1	Active - R
		GXS ANF 25-10 50001A	1	Active - R
		GXS ANF 50-20 50001A	1	Active - R

R = Design Releasable



Automotive

Power Conversion



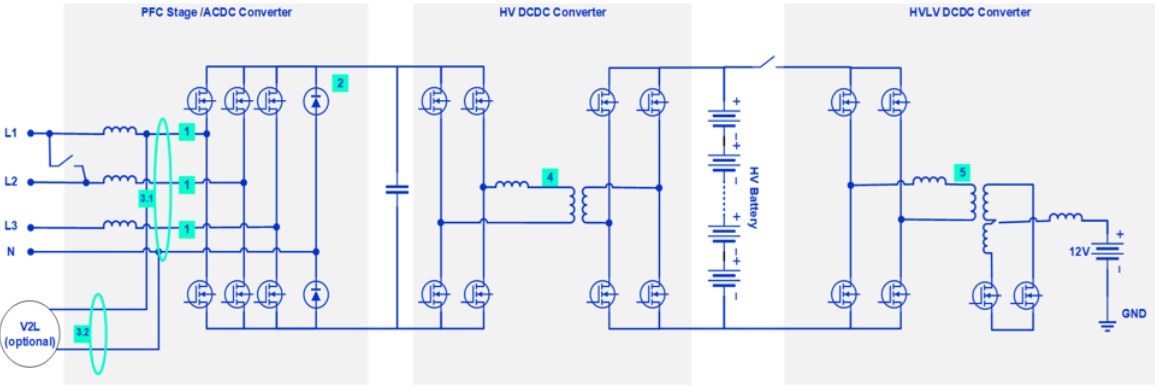
Automotive | Power Conversion

Xin1 Converter



Value Proposition

LEM leads Residual Current Monitoring (RCM) innovation for on-board chargers by providing high-sensitivity leakage-current detection required for safe bidirectional charging. Its sensor technology supports multi-socket and multi-port OBC architectures through accurate and stable current measurement across all power paths. Compact IC-based current sensors integrate directly on the PCB, enabling precise real-time monitoring at safety-critical points within the OBC



INTEGRATED CURRENT SENSORS

Family	Family Description	Product	Position	Status
GXM	AC and DC integrated current sensor, SO10 package	GXM ANC 80-32 30010A	1	Coming soon - R
		GXM ANC 50-20 50010A	1	Active - R
		GXM ANC 75-30 30010A	1, 2, 4, 5	Coming soon - R
		GXM ANC 100-40 50010A	1	Active - R
		GXM ANC 110-44 30010A	1	Active - R
GXN	AC and DC integrated current sensor, SO16 package	GXN ANC 66-26 50011A	2, 4, 5	(blank) - R

R = Design Releasable

LEAKAGE CURRENT SENSORS

Family	Family Description	Product	Position	Status
CDT	High Accuracy AC and DC differential current sensor	CDT 0.3-S2/SP27	3	Active - R
		CDT 0.3-S4/SP20	3	Active - R



Automotive

Powertrain



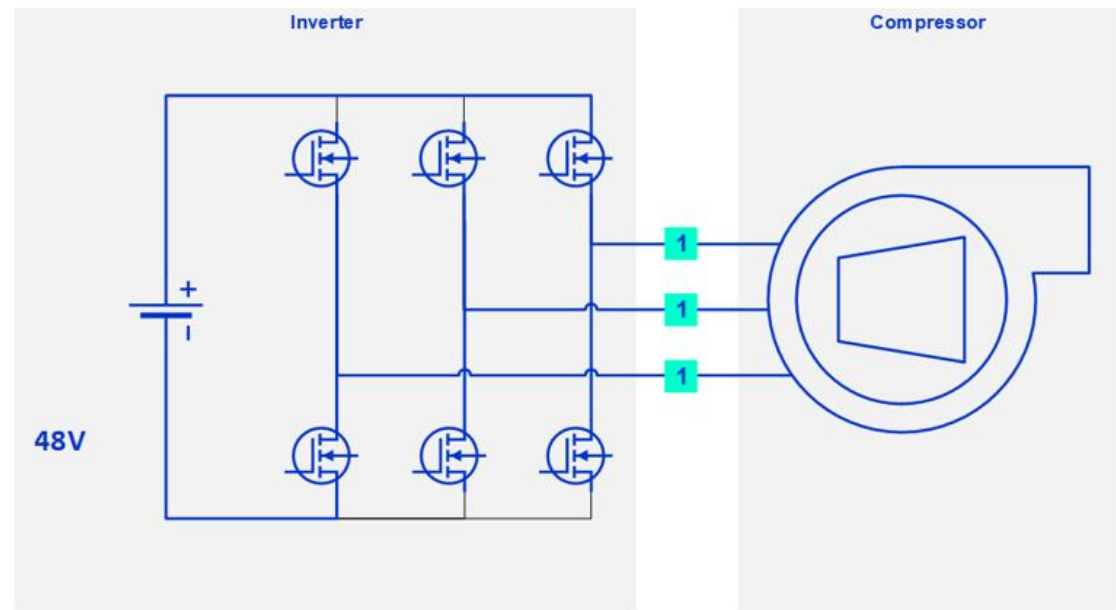
Automotive | Powertrain

e-Turbo Charger



Value Proposition

Precise current sensing lets an e-Turbo’s high-speed electric motor deliver instant boost, optimal control, and higher efficiency—enhancing responsiveness and protection in demanding power electronics systems.



INTEGRATED CURRENT SENSORS

Family	Family Description	Product	Position	Status
GXM	AC and DC integrated current sensor, SO10 package	GXM ANC 50-20 30010A	1	Coming soon - R
		GXM ANC 75-30 30010A	1	Coming soon - R
		GXM ANC 80-32 50010A	1	Coming soon - R
		GXM ANC 100-40 50010A	1	Active - R
		GXM ANC 110-44 30010A	1	Active - R
GXS	AC and DC integrated current sensor, SO8 package	GXS ANF 10-4 50101A	1	Active - R
		GXS ANF 20-8 50101A	1	Active - R
		GXS ANF 25-10 50001A	1	Active - R
		GXS ANF 50-20 50001A	1	Active - R

R = Design Releasable



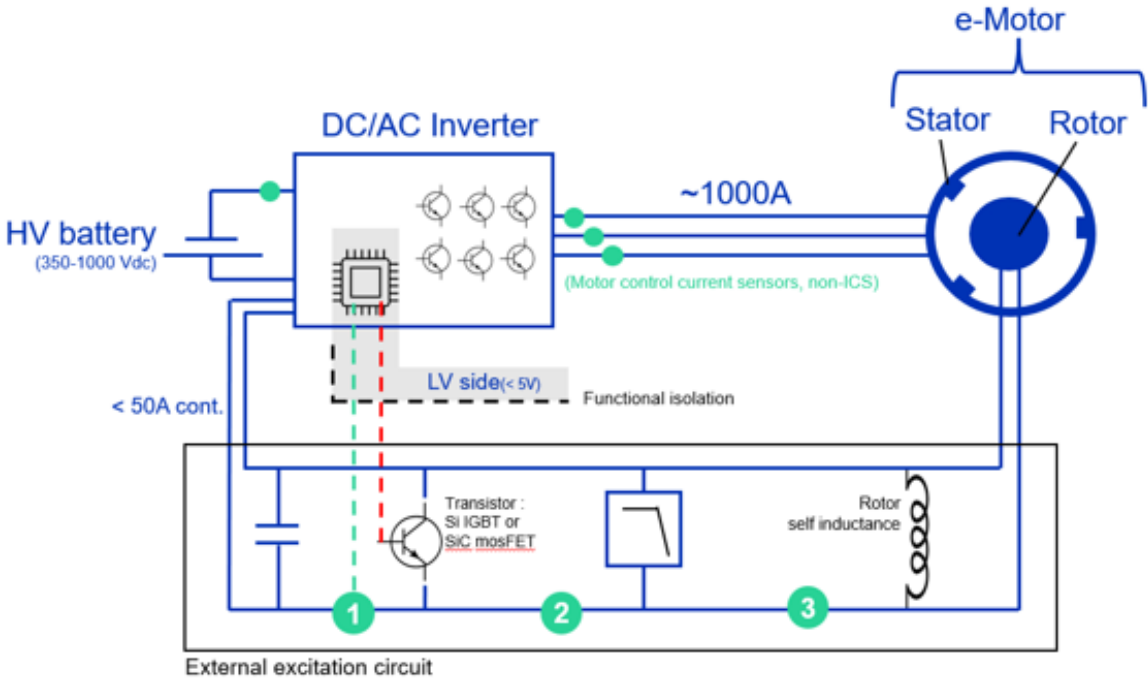
Automotive | Powertrain

Excitation Rotor



Value Proposition

Sending current to a wound rotor enables dynamic magnetization, avoiding rare-earth magnets but with lower efficiency at low torque; key challenges include rotor insulation, heat management, and functional safety, while trends point to fast SiC MOSFETs for 800 V systems and advanced current sensing.



INTEGRATED CURRENT SENSORS

Family	Family Description	Product	Position	Status
GO	AC and DC integrated current sensor, SOIC package	GO 30-SMS/SP3	2	Active - R
		GO 30-SMS	2, 3	Active - R
		GO 20-SMS	3	Active - R
GXM	AC and DC integrated current sensor, SO10 package	GXM ANC 110-44 30010A	1	Active - R
		GXM ANC 100-40 50010A	2, 3	Active - R
		GXM ANC 80-32 50010A	2, 3	Coming soon - R
		GXM ANC 50-20 50010A	1	Active - R
		GXM ANC 75-30 30010A	1, 2	Coming soon - R
		GXM ANC 80-32 30010A	1	Coming soon - R
GXN	AC and DC integrated current sensor, SO16 package	GXN ANC 80-32 50011A	1, 2, 3	Active - R
		GXN ANC 50-20 50011A	1	Active - R
		GXN ANC 100-40 50011A	2, 3	Active - R
GXS	AC and DC integrated current sensor, SO8 package	GXS ANF 50-20 50001A	1	Active - R
HMSR	AC and DC integrated current sensor, SO16 package	HMSR 15-SMS	1, 2, 3	Active - R
		HMSR 30-SMS	1, 2, 3	Active - R
		HMSR 10-SMS	1	Active - R

R = Design Releasable



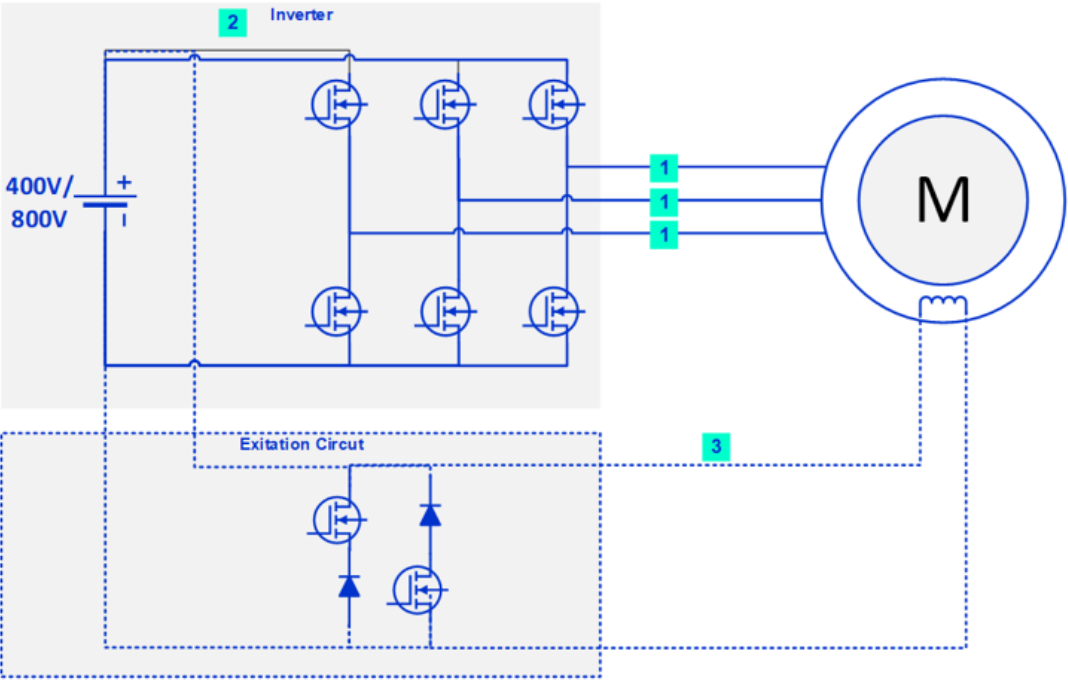
Automotive | Powertrain

Traction Inverter



Value Proposition

Our sensor designs support easy integration into varied e-motor systems through compact dimensions and mechanically flexible configurations. The portfolio covers permanent-magnet synchronous, asynchronous induction, and electrically excited synchronous machines, providing sensing options aligned with each topology's control and mechanical requirements



INTEGRATED CURRENT SENSORS

Family	Family Description	Product	Position	Status
GO	AC and DC integrated current sensor, SOIC package	GO 20-SME	3	Active - R
		GO 20-SMS	3	Active - R
GXM	AC and DC integrated current sensor, SO10 package	GXM ANC 75-30 30010A	3	Coming soon - R
		GXM ANC 80-32 50010A	3	Coming soon - R
		GXM ANC 110-44 30010A	3	Active - R
		GXM ANC 100-40 50010A	3	Active - R
GXN	AC and DC integrated current sensor, SO16 package	GXN ANC 100-40 50011A	3	Active - R
		GXN ANC 80-32 50011A	3	Active - R

POWER CONVERSION & CONTROL SENSORS

Family	Family Description	Product	Position	Status
HAH1	AC and DC current sensor with multiphase options	HAH1DRW 900-S	1	Active - R
HAH3		HAH3DR 600-S0E	1	Active - R
		HAH3DR 1500-S0A	1	Active - R
		HAH3DR 800-S06	1	Active - R
		HAH3DR 1100-S07/SP4	1	Active - R
HC16	AC and DC current sensor	HC16F 1200-S00	1	Active - R
HC5		HC5FL 900-S/SP1	1	Active - R
		HC5FW 600-S/SP1	1	Active - R
		HC5FW 800-S	1	Active - R
HSN	AC and DC current sensor for battery and motor drive	HSNDR 900-R00	2	Active - R
HST	AC and DC current sensor for battery	HSTDR 900-000	2	Active - R
		HSTDR 1300-000	2	Active - R
		HSTDR 1500-000	2	Active - R
		HSTDR 300-000	2	Active - R
		HSTDR 400-000	2	Active - R
		HSTDR 600-000	2	Active - R

R = Design Releasable



City & Infrastructure

EV Chargers

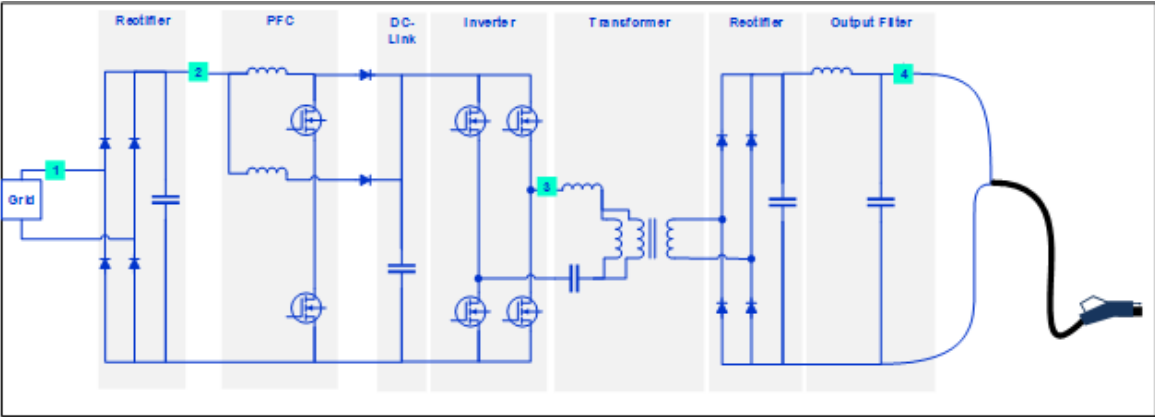


City & Infrastructure | EV Chargers

EV Charger DC

Value Proposition

At the entry point, a Rogowski coil can be used to interface the charging station with the smart-grid infrastructure. Current sensors can be integrated directly into the AC/DC or DC/DC converter stages. Upstream of the vehicle connection, LEM can also provide a DC energy meter compliant with all relevant legal-metrology requirements.



AC GRID SENSORS

Family	Family Description	Product	Position	Status
ART	Split-core AC Rogowski Coils Current Sensors	ART-B22-D125	1	Active - R
		ART-B22-D175	1	Active - R
		ART-B22-D70	1	Active - R
		ART-B22-D300	1	Active - R
ARU		ARU-B100-D125	1	Active - R
		ARU-B100-D175	1	Active - R
		ARU-B100-D250	1	Active - R
		ARU-B100-D300	1	Active - R

ENERGY METERS

Family	Family Description	Product	Position	Status
DCBM	Direct Current Billing Material (EV Charging)	DCBM_N0M_0810W00_0000C00	4	Active - R
		DCBM_N00_4000C35_0000C00	4	Active - R
		DCBM_N00_6000C20_0000C00	4	Active - R
DCES	Direct Current Energy Sensor	DCES_C0M_6000W00_R00_W00	4	Coming soon - R

INTEGRATED CURRENT SENSORS

Family	Family Description	Product	Position	Status
GXM	AC and DC integrated current sensor, SO10 package	GXMANC 100-40 50010A	2, 3	Active - R
		GXMANC 110-44 30010A	2, 3	Active - R

POWER CONVERSION & CONTROL SENSORS

Family	Family Description	Product	Position	Status
LKSR	AC and DC current sensor	LKSR 25-NP	2, 3	Active - R
		LKSR 50-NP	2, 3	Active - R
		LKSR 6-NP	2, 3	Active - R
		LKSR 75-NP	2, 3	Active - R
		LKSR 15-NP	2, 3	Active - R

R = Design Restractable



City & Infrastructure

Renewable



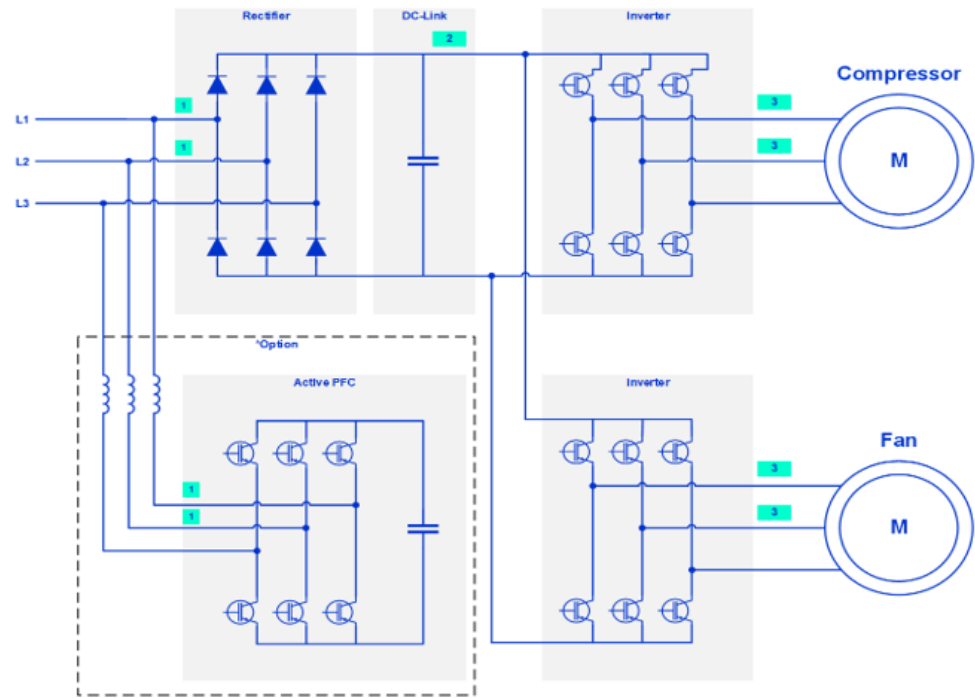
City & Infrastructure | Renewable

Heat Pump



Value Proposition

Designed for modern heat-pump systems, this solution operates across 240–440 Vac with roughly 200 Arms current handling, delivering the performance needed for advanced active PFC stages that demand high-bandwidth sensing. Its compact, cost-efficient ICS architecture eliminates the need for additional signal-conditioning electronics, enabling cleaner integration, reduced system complexity, and a streamlined path to higher energy efficiency in next-generation heat pump designs.



INTEGRATED CURRENT SENSORS				
Family	Family Description	Product	Position	Status
GO	AC and DC integrated current sensor, SOIC package	GO 10-SME	1	Active - R
		GO 10-SMS	1, 2, 3	Active - R
		GO 30-SMS	1, 2, 3	Active - R
		GO 8-SMS/SP4	2, 3	Active - R
GXN	AC and DC integrated current sensor, SO16 package	GXN ANC 20-8 50011A	1, 2, 3	Active - R
		GXN ANC 80-32 50011A	1	Active - R
		GXN ANC 100-40 50011A	1	Active - R
		GXN AND 50-20 50011A	1	(blank) - R
		GXN ANC 30-12 50011A	2, 3	Active - R
HMSR		HMSR 6-SMS	1, 2, 3	Active - R
		HMSR 30-SMS	1, 2, 3	Active - R
POWER CONVERSION & CONTROL SENSORS				
Family	Family Description	Product	Position	Status
HLSR	AC and DC current sensor	HLSR 10-P	2, 3	Active - R
		HLSR 32-P	2, 3	Active - R
		HLSR 100-P/SP14	1	Active - R
		HLSR 25-P/SPH00	1	Active - R

R = Design Releasable



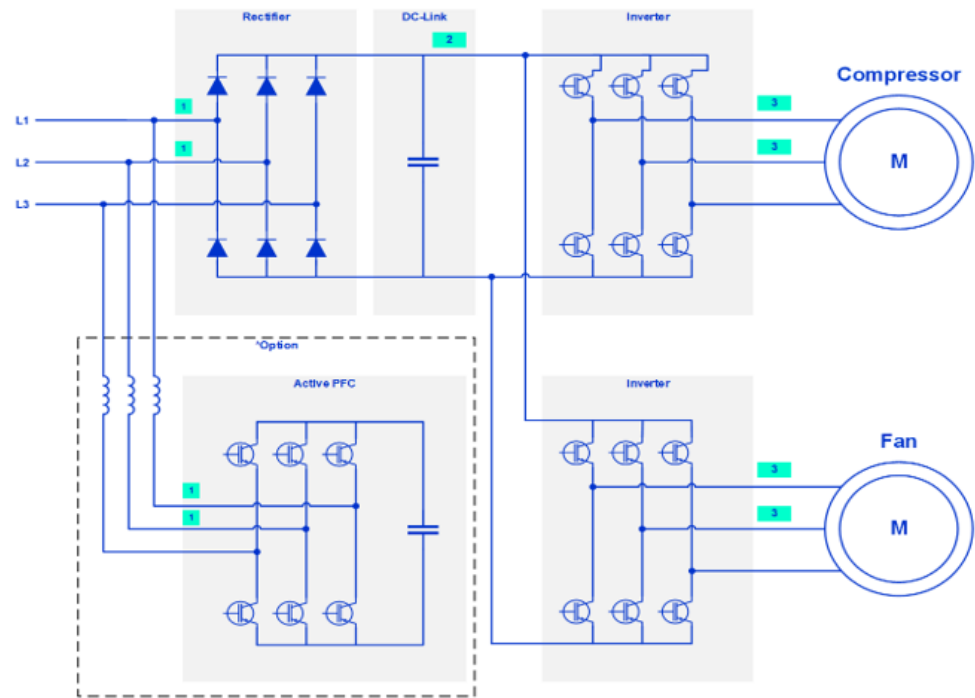
City & Infrastructure | Renewable

HVAC



Value Proposition

Designed for modern HVAC systems, this solution operates across 240–440 Vac with roughly 200 Arms current handling, delivering the performance needed for advanced active PFC stages that demand high-bandwidth sensing. Its compact, cost-efficient ICS architecture eliminates the need for additional signal-conditioning electronics, enabling cleaner integration, reduced system complexity, and a streamlined path to higher energy efficiency in next-generation HVAC designs.



INTEGRATED CURRENT SENSORS

Family	Family Description	Product	Position	Status
GO	AC and DC integrated current sensor, SOIC package	GO 10-SME	1	Active - R
		GO 10-SMS	1, 2, 3	Active - R
		GO 30-SMS	1, 2, 3	Active - R
		GO 8-SMS/SP4	2, 3	Active - R
GXN	AC and DC integrated current sensor, SO16 package	GXN ANC 20-8 50011A	1, 2, 3	Active - R
		GXN ANC 80-32 50011A	1	Active - R
		GXN ANC 100-40 50011A	1	Active - R
		GXN AND 50-20 50011A	1	(blank) - R
		GXN ANC 30-12 50011A	2, 3	Active - R
HMSR		HMSR 6-SMS	1, 2, 3	Active - R
		HMSR 30-SMS	1, 2, 3	Active - R

POWER CONVERSION & CONTROL SENSORS

Family	Family Description	Product	Position	Status
HLSR	AC and DC current sensor	HLSR 10-P	2, 3	Active - R
		HLSR 32-P	2, 3	Active - R
		HLSR 100-P/SP14	1	Active - R
		HLSR 25-P/SPH00	1	Active - R

R = Design Ready/strable



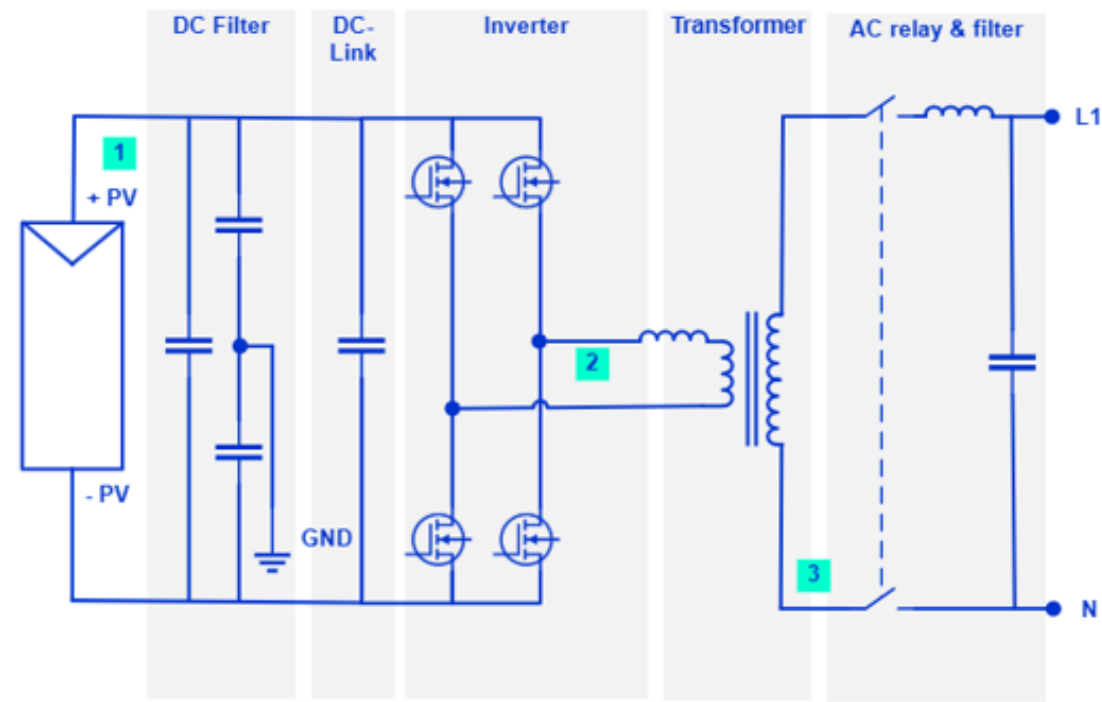
City & Infrastructure | Renewable

PV (Solar) Power Conversion System



Value Proposition

Isolated, high-accuracy, high-bandwidth, and rugged current sensors enable precise control of energy flow and fast, reliable converter performance in harsh renewable-energy environments.



INTEGRATED CURRENT SENSORS

Family	Family Description	Product	Position	Status
GO	AC and DC integrated current sensor, SOIC package	GO 10-SME	1	Active - R
		GO 10-SMS	1	Active - R
		GO 30-SMS	1	Active - R
GXN	AC and DC integrated current sensor, SO16 package	GXN ANC 20-8 50011A	1	Active - R
		GXN ANC 80-32 50011A	1	Active - R
		GXN ANC 100-40 50011A	1	Active - R
HMSR		HMSR 6-SMS	1	Active - R
		HMSR 30-SMS	1	Active - R

POWER CONVERSION & CONTROL SENSORS

Family	Family Description	Product	Position	Status
CASR	High Accuracy AC and DC current sensor	CASR 15-NP/SP3	2	Active - R
		CASR 25-NP/SP3	2	Active - R
		CASR 50-NP/SP3	2	Active - R
HLSR	AC and DC current sensor	HLSR 100-P/SP14	1	Active - R
		HLSR 25-P/SPH00	1	Active - R
LA		LA 100-P/SP4	3	Active - R
LAH		LAH 100-P/SP10	3	Active - R
LWSR		LWSR 250-P	3	Active - R
		LWSR 350-P/SP1	3	Active - R
LZSR		LZSR 80-P	3	Active - R
	LZSR 250-P/SP1	3	Active - R	

R = Design Releasable

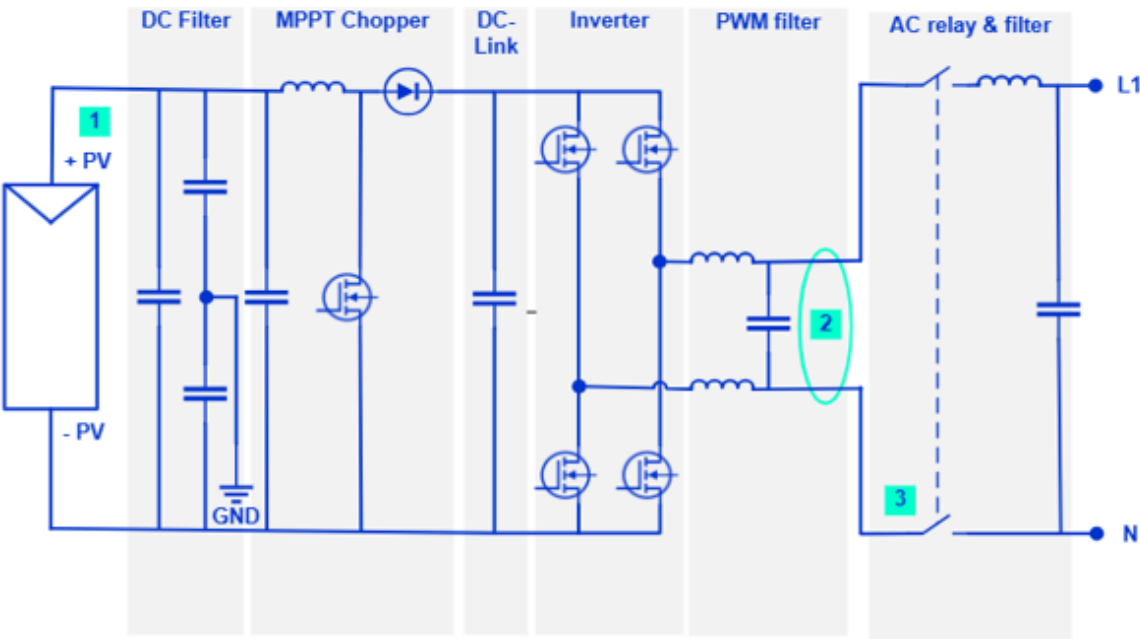


City & Infrastructure | Renewable

PV (Solar) Power Conversion transformer-less with MPPT Chopper

Value Proposition

Isolated, high-accuracy, high-bandwidth, and rugged current sensors enable precise control of energy flow and fast, reliable converter performance in harsh renewable-energy environments.



INTEGRATED CURRENT SENSORS

Family	Family Description	Product	Position	Status
GO	AC and DC integrated current sensor, SOIC package	GO 10-SME	1	Active - R
		GO 10-SMS	1	Active - R
		GO 30-SMS	1	Active - R
GXN	AC and DC integrated current sensor, SO16 package	GXN ANC 20-8 50011A	1	Active - R
		GXN ANC 80-32 50011A	1	Active - R
		GXN ANC 100-40 50011A	1	Active - R
HMSR		HMSR 6-SMS	1	Active - R
		HMSR 30-SMS	1	Active - R

LEAKAGE CURRENT SENSORS

Family	Family Description	Product	Position	Status
CTSR	High Accuracy AC and DC differential current sensor	CTSR 0.3-P	2	Active - R
		CTSR 0.6-P	2	Active - R
		CTSR 1-P	2	Active - R
LDSR	AC and DC differential current sensor	LDSR 0.3-TP/SP1	2	Active - R
		LDSR 0.3-NP	2	Active - R

POWER CONVERSION & CONTROL SENSORS

Family	Family Description	Product	Position	Status
CASR	High Accuracy AC and DC current sensor	CASR 6-NP	3	Active - R
		CASR 15-NP	3	Active - R
		CASR 25-NP	3	Active - R
		CASR 50-NP	3	Active - R
HLSR	AC and DC current sensor	HLSR 100-P/SP14	1	Active - R
		HLSR 25-P/SPH00	1	Active - R
LA		LA 100-P/SP4	3	Active - R
LAH		LAH 100-P/SP10	3	Active - R
LWSR		LWSR 250-P	3	Active - R
		LWSR 350-P/SP1	3	Active - R
LZSR		LZSR 80-P	3	Active - R
		LZSR 250-P/SP1	3	Active - R

R = Design Restrictable



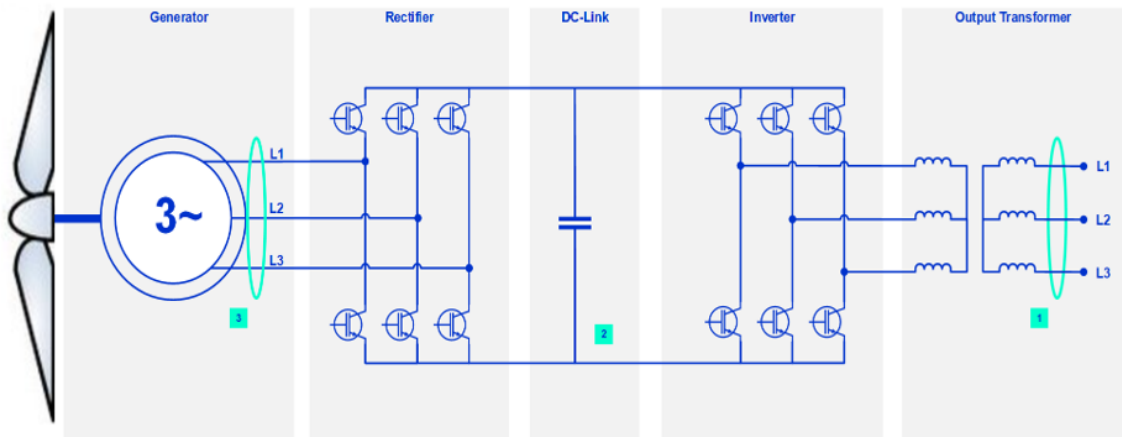
City & Infrastructure | Renewable

Wind Power Conversion System



Value Proposition

Isolated, high-accuracy, high-bandwidth, and rugged current sensors enable precise control of energy flow and fast, reliable converter performance in harsh renewable-energy environments.



POWER CONVERSION & CONTROL SENSORS

Family	Family Description	Product	Position	Status
HAX	AC and DC current sensor	HAX 1000-S/SP11	1	Active - R
HAZ	AC and DC current sensor, Conditioned output	HAZ 4000-SB	3	Active - R
		HAZ 20000-SB	3	Active - R
LF	AC and DC current sensor	LF 505-S	1	Active
		LF 1005-S	1	Active
		LF 1010-S	1	Active - R
		LF 510-S	1	Active - R
		LF 2005-S	3	Active
		LF 2010-S	3	Active - R

R = Design Reistrable

VOLTAGE SENSORS

Family	Family Description	Product	Position	Status
CV	High Accuracy AC and DC voltage sensor	CV 3-2000	2	Active - R
DV	AC and DC voltage sensor	DV 6400	2	Active - R



City & Infrastructure

Smart Grid



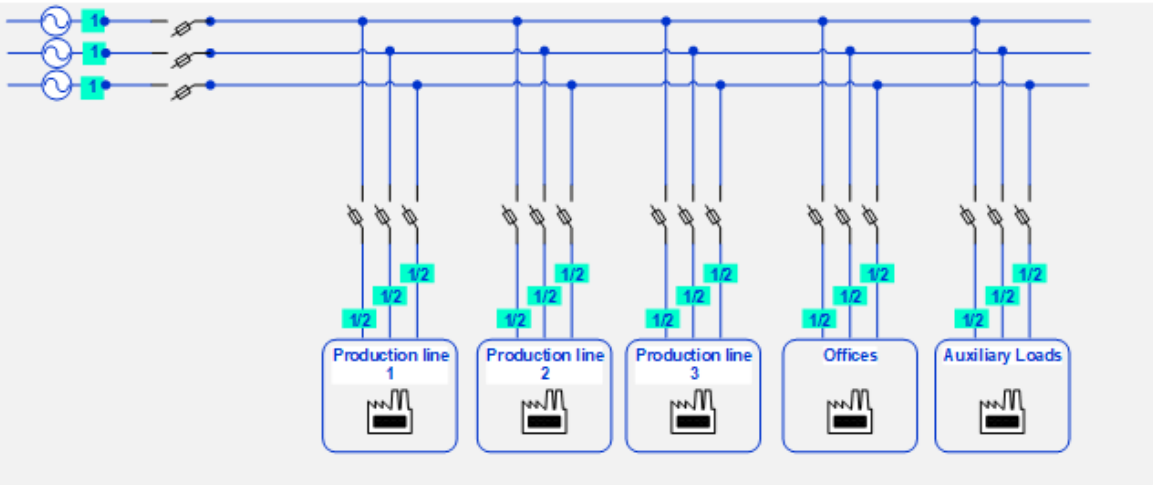
City & Infrastructure | Smart Grid

Industrial AC Power Monitoring



Value Proposition

Class 0.5 and 1 current sensors deliver highly accurate and reliable measurements, ensuring trustworthy data for billing, load analysis, and power-quality monitoring. Their flexible split-core construction enables non-intrusive, hassle-free installation, making them ideal for retrofit projects without operational downtime. Designed to scale across a wide range of applications—from standard low-voltage panels to high-current busbars—they provide a robust solution capable of handling currents from tens to thousands of amps.



AC GRID SENSORS

Family	Family Description	Product	Position	Status
AK	Split-core AC current sensor, Conditioned output	AK 50 B10	2	Active - R
		AK 50 B420L	2	Active - R
		AP 50 B10	2	Active - R
AP		AP 100 B420L	2	Active - R
		AP 400 B420L	2	Active - R
		ART-B22-D125	1	Active - R
ART	Split-core AC Rogowski Coils Current Sensors	ART-B22-D70	1	Active - R
		ARU-B100-D250	1	Active - R
		ARU-B100-D125	1	Active - R
ARU		ARU-B100-D175	1	Active - R
		AT 50 B10	2	Active - R
		ATO-75-B1I-D10	2	Active - R
AT	Split-core AC current sensor, Conditioned output	ATO-75-B333-D10	2	Active - R
		ATO-125-B225-D16	2	Active - R
			2	Active - R

R = Design Restrictable

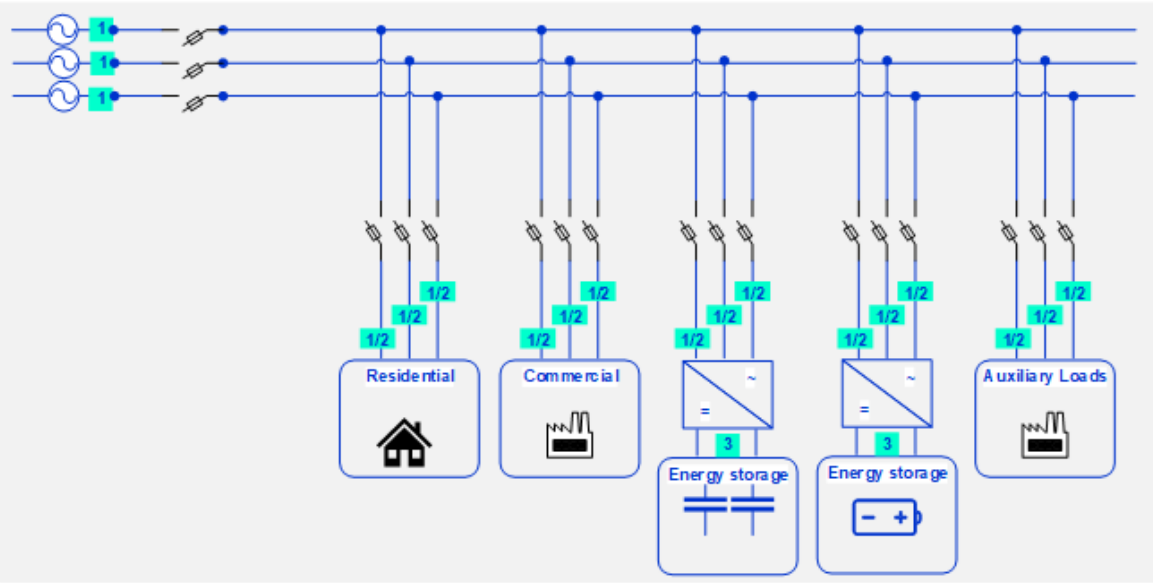


City & Infrastructure | Smart Grid

Low / Medium Voltage Substation Monitoring

Value Proposition

Class 0.5 and 1 current sensors provide accurate, reliable measurements for billing, load analysis, and power-quality monitoring. Their split-core design allows quick, non-intrusive installation—ideal for retrofits with no downtime. Supporting currents from tens to thousands of amps, they offer a robust, scalable solution for applications ranging from low-voltage panels to high-current busbars.



AC GRID SENSORS

Family	Family Description	Product	Position	Status
AK	Split-core AC current sensor, Conditioned output	AK 50 B10	2	Active - R
		AK 50 B420L	2	Active - R
AP		AP 50 B10	2	Active - R
		AP 100 B420L	2	Active - R
		AP 400 B420L	2	Active - R
ART	Split-core AC Rogowski Coils Current Sensors	ART-B22-D125	1	Active - R
		ART-B22-D70	1	Active - R
ARU		ARU-B100-D250	1	Active - R
		ARU-B100-D125	1	Active - R
		ARU-B100-D175	1	Active - R
AT	Split-core AC current sensor, Conditioned output	AT 50 B10	2	Active - R
		ATO-75-B1I-D10	2	Active - R
ATO		ATO-75-B333-D10	2	Active - R
		ATO-125-B225-D16	2	Active - R

R = Design Releasable

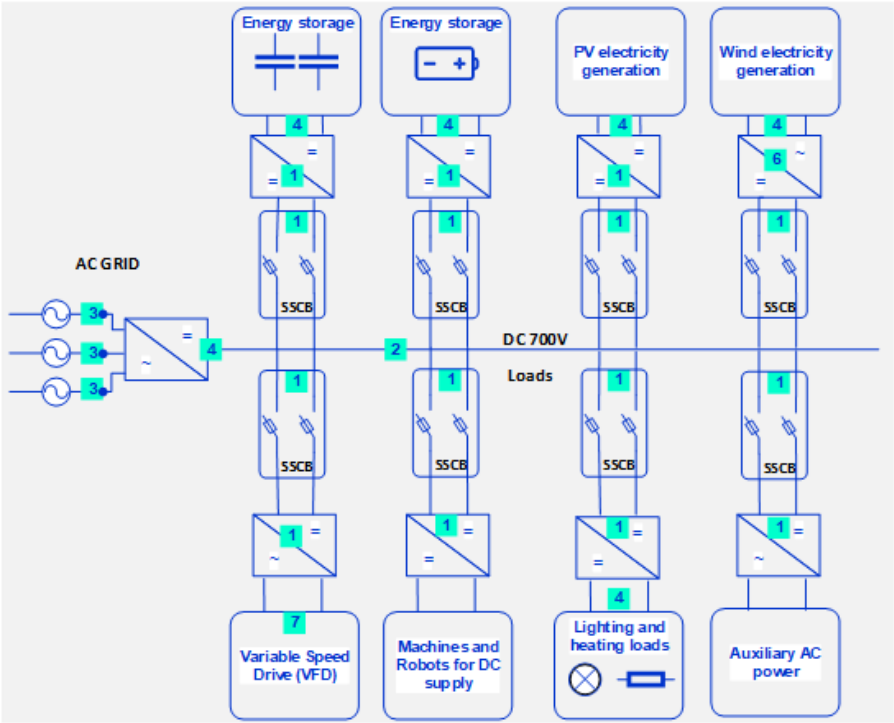


City & Infrastructure | Smart Grid

Low Voltage DC grid

Value Proposition

LEM sensors deliver precise, robust AC- and DC-grid measurements that ensure reliable control, efficiency, and system protection. With compact, easy-to-integrate designs and wide current ranges, they simplify installation in both new and retrofit architectures—providing dependable performance from low-voltage distribution to high-power conversion systems.



AC GRID SENSORS

Family	Family Description	Product	Position	Status
ART	Split-core AC Rogowski Coils Current Sensors	ART-B22-D70	3	Active - R
		ART-B22-D125	3	Active - R
ARU		ARU-B100-D125	3	Active - R
		ARU-B100-D175	3	Active - R
		ARU-B100-D250	3	Active - R
ATO		Split-core AC current sensor, Conditioned output	ATO-75-B11-D10	3
	ATO-75-B333-D10		3	Active - R
	ATO-125-B225-D16		3	Active - R

INTEGRATED CURRENT SENSORS

Family	Family Description	Product	Position	Status
GXN	AC and DC integrated current sensor, SO16 package	GXN ANC 40-16 50011A	1	Active - R
		GXN ANC 50-20 50011A	1	Active - R
		GXN ANC 80-32 50011A	1	Active - R
		GXN ANC 100-40 50011A	1	Active - R
		GXN ANC 20-8 50011A	1	Active - R
		GXN ANC 30-12 50011A	1	Active - R

VOLTAGE SENSORS

Family	Family Description	Product	Position	Status
DVC	AC and DC voltage sensor PCB mounted	DVC 1000-UI	2	Active - R
		DVC 1000-P	2	Active - R

R = Design Releasable



R = Design Registrable



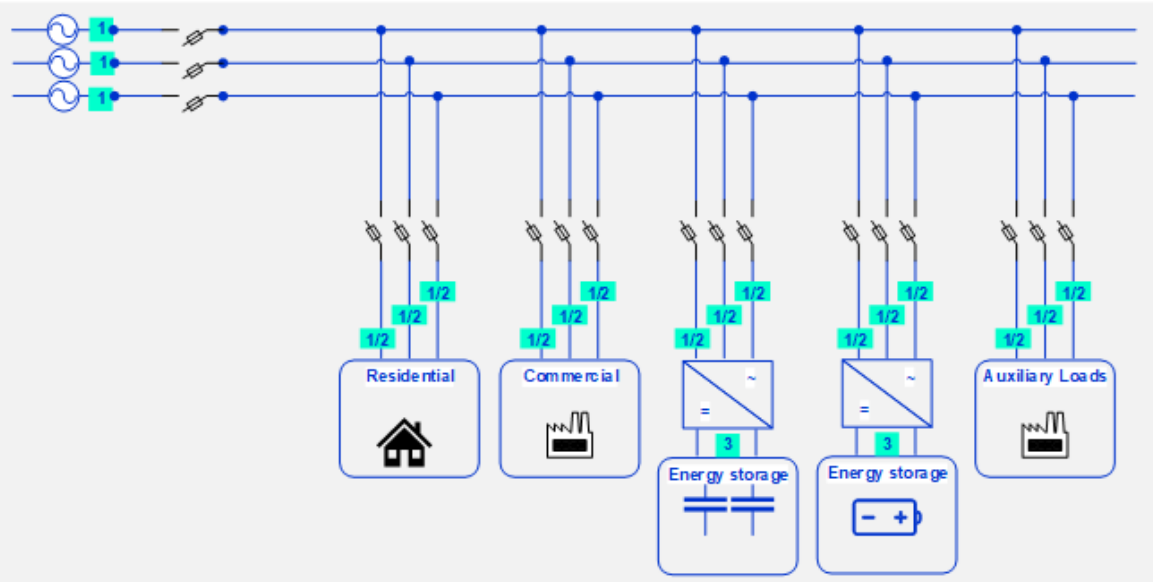
Family	Family Description	Product	Position	Status
DV	AC and DC voltage sensor	DV 6400	2	Active - R

City & Infrastructure | Smart Grid

Utility Power Monitoring

Value Proposition

Class 0.5 and 1 current sensors deliver highly accurate and reliable measurements, ensuring trustworthy data for billing, load analysis, and power-quality monitoring. Their flexible split-core construction enables non-intrusive, hassle-free installation, making them ideal for retrofit projects without operational downtime. Designed to scale across a wide range of applications—from standard low-voltage panels to high-current busbars—they provide a robust solution capable of handling currents from tens to thousands of amps.



AC GRID SENSORS

Family	Family Description	Product	Position	Status
AK	Split-core AC current sensor, Conditioned output	AK 50 B10	2	Active - R
		AK 50 B420L	2	Active - R
		AP 50 B10	2	Active - R
AP		AP 100 B420L	2	Active - R
		AP 400 B420L	2	Active - R
		ART-B22-D125	1	Active - R
ART	Split-core AC Rogowski Coils Current Sensors	ART-B22-D70	1	Active - R
		ARU-B100-D250	1	Active - R
		ARU-B100-D125	1	Active - R
ARU		ARU-B100-D175	1	Active - R
		AT 50 B10	2	Active - R
		ATO-75-B11-D10	2	Active - R
AT	Split-core AC current sensor, Conditioned output	ATO-75-B333-D10	2	Active - R
		ATO-125-B225-D16	2	Active - R
			2	Active - R

R = Design Restrictable



City & Infrastructure

Smart Metering

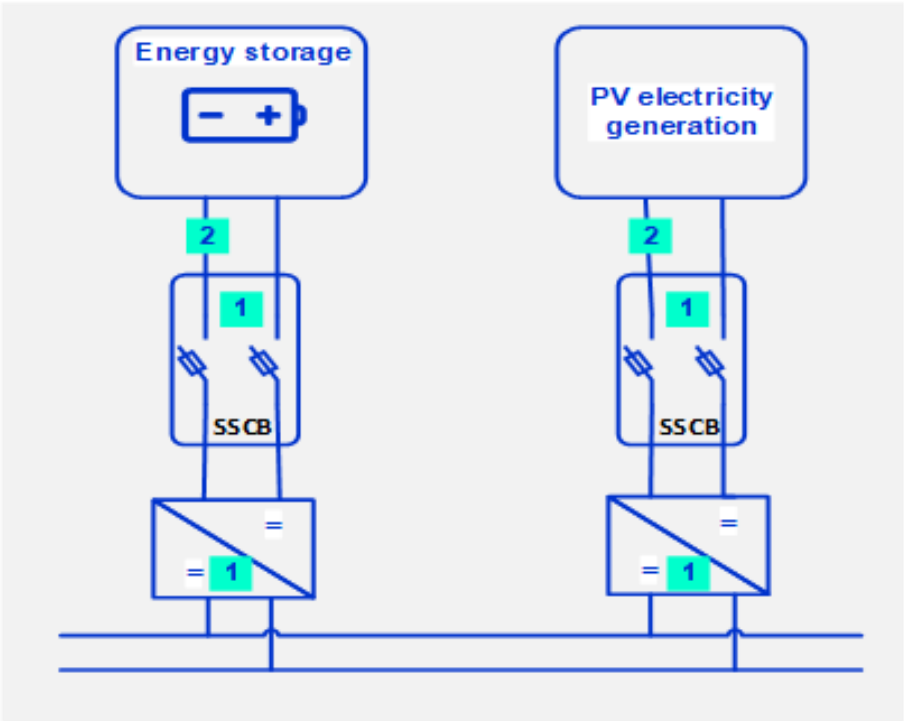


City & Infrastructure | Smart Metering

DC Grid Solar Metering

Value Proposition

LEM provides precise, galvanically isolated current and voltage sensing ideal for DC solar metering. Its compact, high-accuracy Hall and advanced isolation sensors ensure reliable DC measurement and efficiency in renewable energy systems, supporting robust solar power monitoring and control



POWER CONVERSION & CONTROL SENSORS

Family	Family Description	Product	Position	Status
CASR	High Accuracy AC and DC current sensor	CASR 15-NP	1	Active - R
		CASR 50-NP	1	Active - R
LA	AC and DC current sensor	LA 100-P	1	Active - R
		LA 200-P	1	Active - R
LF		LF 310-S	1	Active - R
		LF 510-S	1	Active - R
		LF 305-S	1	Active
		LF 505-S	1	Active
LWSR		LWSR 350-P/SP1	1	Active - R
LZSR		LZSR 250-P/SP1	1	Active - R

VOLTAGE SENSORS

Family	Family Description	Product	Position	Status
DVL	AC and DC voltage sensor	DVL 1500	2	Active - R
		DVL 1000	2	Active - R
LV (Voltage)		LV 100-750/SP5	2	Active - R

R = Design Releasable



Datacenters

AC-based Architecture



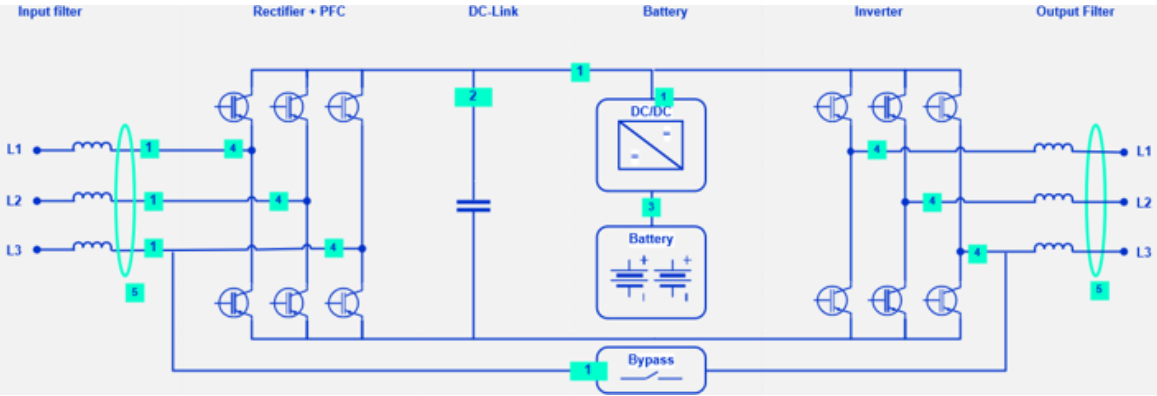
Datacenters | AC-based Architecture

Back-up Power Supply



Value Proposition

LEM current sensors provide isolated feedback throughout the UPS power path, from input and output monitoring to active-rectifier, inverter and battery-converter control. Accurate current measurement supports power-factor correction, stable output regulation, battery charge/discharge control, current sharing and fast overcurrent protection, improving efficiency and availability in mission-critical data centers.



INTEGRATED CURRENT SENSORS

Family	Family Description	Product	Position	Status
GXM	AC and DC integrated current sensor, SO10 package	GXM ANC 50-20 30010A	4	Coming soon - R

LEAKAGE CURRENT SENSORS

Family	Family Description	Product	Position	Status
CTSR	High Accuracy AC and DC differential current sensor	CTSR 0.3-P	5	Active - R
		CTSR 3-TP/SP20	5	Active - R

POWER CONVERSION & CONTROL SENSORS

Family	Family Description	Product	Position	Status
HAT	AC and DC current sensor	HAT 2184-S/SP6	1, 3	Active - R
		HAT 200-S	1, 3	Active - R
HAX		HAX 500-S	1, 3	Active - R
		HAX 2000-S	1	Active - R
HLSR	AC and DC current sensor	HAX 1000-S	3	Active - R
		HLSR 20-P	1, 3, 4	Active - R
		HLSR 100-P/SP14	1, 3, 4	Active - R
		HO 50-S-0100	1, 3	Active - R
HO	Fast AC and DC current sensor	HO 250-S-0100	1, 3	Active - R
HOB		HOB 30-P	2	Active - R
		HOB 130-P	2	Active - R
HOYL		HOYL 800-S-0100	1, 3	Active - R
HOYS	AC and DC current sensor	HOYS 560-S-0100	1	Active - R
		HOYS 100-S-0100	1, 3	Active - R
		HOYS 400-S-0100	1, 3	Active - R
		HOYS 500-S-0100	3	Active - R
HTA	AC and DC current sensor	HTA 1000-S	2	Active - R
		HTA 100-S	2	Active - R
LAH		LAH 100-P	1, 3	Active - R
		LAH 25-NP	1, 3	Active - R
LES	AC and DC current sensor	LES 15-NP	3	Active - R
LF		LF 1010-S	3	Active - R
		LF 510-S	3	Active - R
LXSR		LXSR 6-NPS	3	Active - R
LZSR		LZSR 80-P	3	Active - R

VOLTAGE SENSORS

Family	Family Description	Product	Position	Status
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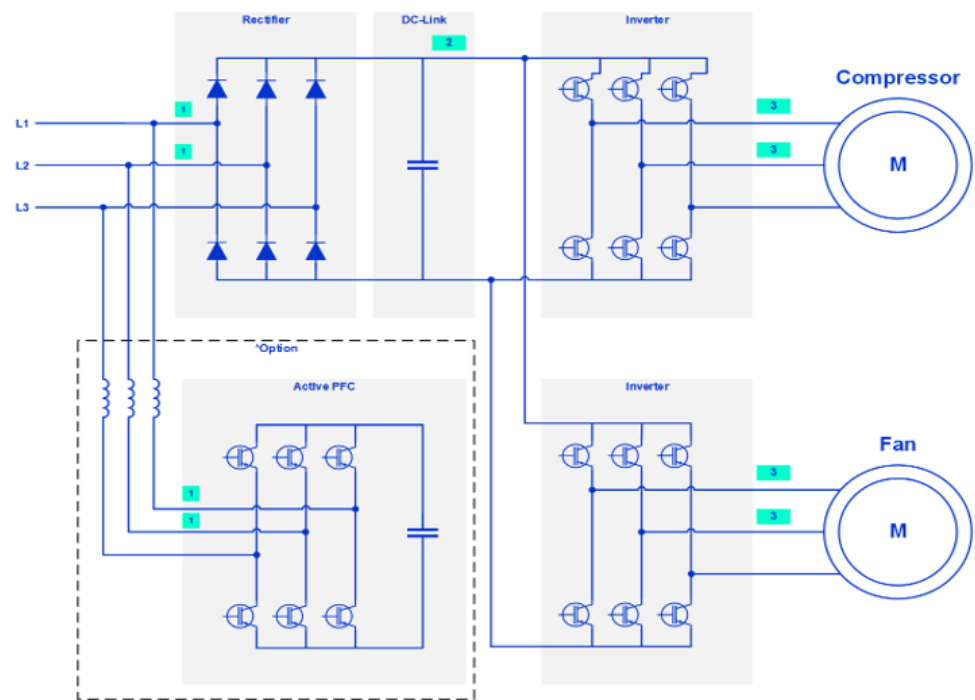
R = Design Releasable

Datacenters | AC-based Architecture

Cooling & HVAC

Value Proposition

LEM current sensors support PFC stages, DC links, inverter phase currents and motor outputs in data-center cooling systems. The portfolio covers compact integrated sensors for low-power fans and pumps, as well as isolated current transducers for high-power compressors, chillers and coolant-distribution units.



INTEGRATED CURRENT SENSORS

Family	Family Description	Product	Position	Status
GO	AC and DC integrated current sensor, SOIC package	GO 10-SME	1	Active - R
		GO 30-SMS	1	Active - R
GXM	AC and DC integrated current sensor, SO10 package	GXM ANC 50-20.30010A	1	Coming soon - R
HMSR	AC and DC integrated current sensor, SO16 package	HMSR 30-SMS	1	Active - R
		HMSR 6-SMS	1	Active - R

POWER CONVERSION & CONTROL SENSORS

Family	Family Description	Product	Position	Status
HAH1	AC and DC current sensor with multiphase options	HAH1DRW 1500-S	3	Active - R
HAH3		HAH3DR 1000-S0E	3	Active - R
HAX		HAX 500-S	1, 2, 3	Active - R
HAX		HAX 1000-S	1, 2, 3	Active - R
HLSR	AC and DC current sensor	HLSR 100-P/SP14	1	Active - R
HOYL		HOYL 200-S-0100	2, 3	Active - R
HOYL		HOYL 800-S-0100	2, 3	Active - R
HOYS		HOYS 100-S-0100	2, 3	Active - R
LAH	AC and DC current sensor	LAH 25-NP	1, 2, 3	Active - R
LAH		LAH 50-P	1, 2, 3	Active - R
LAH		LAH 100-P	1, 2, 3	Active - R
LES		LES 15-NP	1, 2, 3	Active - R
LF	AC and DC current sensor	LF 510-S	2	Active - R
LF		LF 1010-S	2	Active - R
LF		LF 2010-S	2	Active - R
LXSR		LXSR 6-NPS	1, 2, 3	Active - R
LZSR	AC and DC current sensor	LZSR 80-P	1, 2, 3	Active - R

VOLTAGE SENSORS

Family	Family Description	Product	Position	Status
DVL	AC and DC voltage sensor	DVL 500	2	Active - R
		DVL 1000	2	Active - R

R = Design Releasable



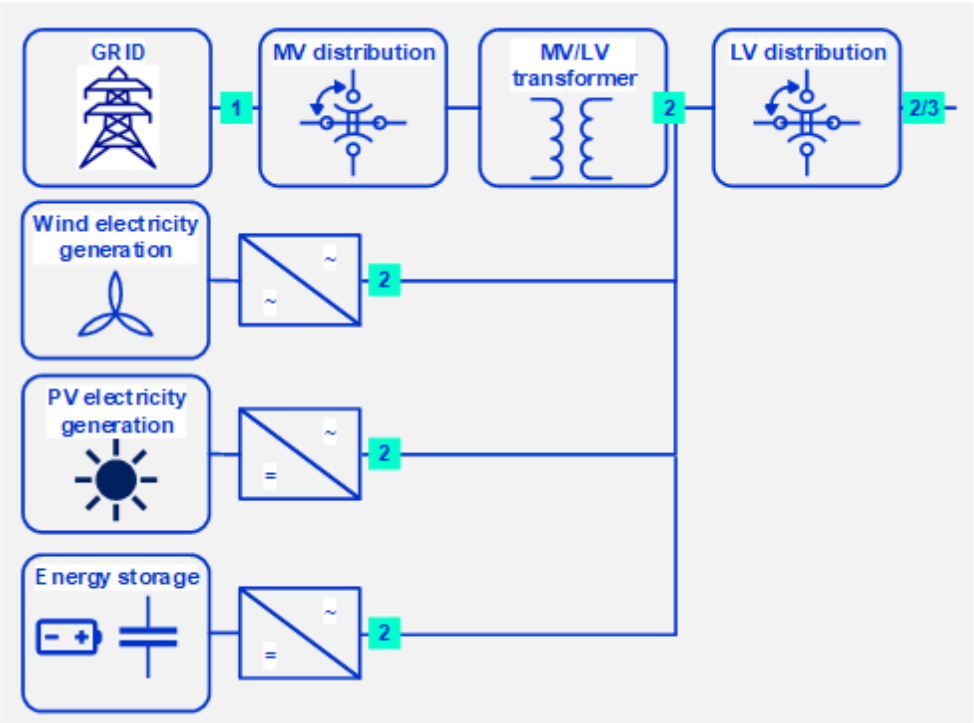
Datacenters | AC-based Architecture

Grid Infrastructure



Value Proposition

LEM current-sensing solutions support transformer and switchgear monitoring, protection, power-quality analysis and energy measurement across the data-center grid interface. The portfolio combines flexible Rogowski coils for safe and easy installation with high-accuracy current transducers for demanding AC and DC measurements, covering applications from low-voltage distribution to high-current grid infrastructure.



AC GRID SENSORS

Family	Family Description	Product	Position	Status
AI-P1A	Integrator for Rogowski Coils	AI-P1A	2	Active - R
AI-PMUL		AI-PMUL	2	Active - R
AK	Split-core AC current sensor, Conditioned output	AK 50 B10	2, 3	Active - R
		AK 50 C420L	2, 3	Active - R
AP		AP 100 B10	3	Active - R
		AP 100 B420L	3	Active - R
		AP 200 B420L	3	Active - R
		AP 400 B420L	3	Active - R
ART	Split-core AC Rogowski Coils Current Sensors	ART-B22-D70	2	Active - R
		ART-B22-D175	2	Active - R
		ART-B22-D300	2	Active - R
		ARU	ART-B22-D125	2
ARU-B100-D125			2	Active - R
ARU-B100-D175			2	Active - R
ARU-B100-D250			2	Active - R
ATO		Split-core AC current sensor, Conditioned output	ARU-B100-D300	2
	ATO-75-B1I-D10		3	Active - R
	ATO-125-B1I-D16		3	Active - R
		ATO-125-B225-D16	3	Active - R

R = Design Restrictable

HIGH PRECISION CURRENT SENSORS

Family	Family Description	Product	Position	Status
ITC	Ultra high precision AC and DC current sensor for traction	ITC 4000-S/SP2	1	Active
		ITC 4000-S	1	Active
ITL	Ultra high precision AC and DC current sensor	ITL 4000-S	1	Active



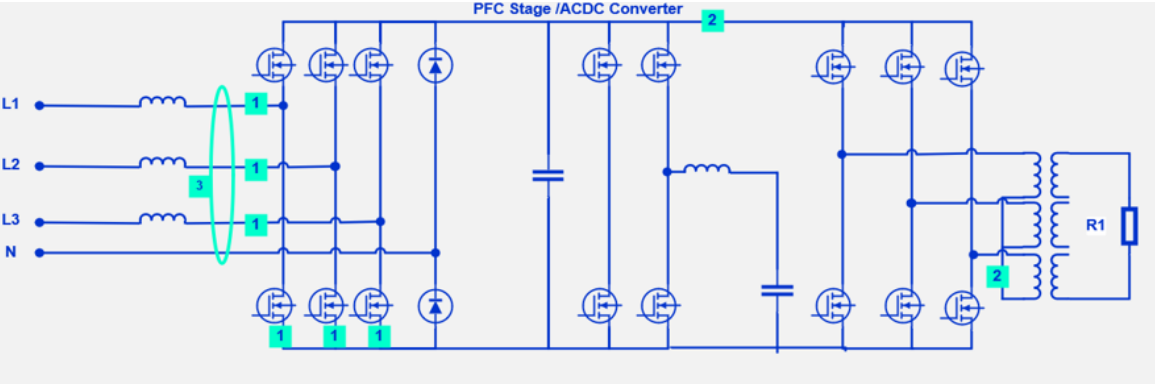
Datacenters | AC-based Architecture

Power Conversion (PSU)



Value Proposition

LEM integrated and isolated current sensors provide fast feedback for PFC, AC/DC and DC/DC stages. Compact integration, low insertion loss and fast overcurrent detection support precise control, higher power density and reliable protection in modern power supplies.



INTEGRATED CURRENT SENSORS

Family	Family Description	Product	Position	Status
GO	AC and DC integrated current sensor, SOIC package	GO 10-SME	1	Active - R
		GO 30-SMS	1	Active - R
GXM	AC and DC integrated current sensor, SO10 package	GXM ANC 50-20 30010A	1	Coming soon - R
		GXM ANC 110-44 30010A	1	Active - R
GXS	AC and DC integrated current sensor, SO8 package	GXS ANF 10-4 50101A	1	Active - R
		GXS ANF 50-20 50001A	1	Active - R

LEAKAGE CURRENT SENSORS

Family	Family Description	Product	Position	Status
CTSR	High Accuracy AC and DC differential current sensor	CTSR 0.3-P	3	Active - R
		CTSR 3-TP/SP20	3	Active - R

POWER CONVERSION & CONTROL SENSORS

Family	Family Description	Product	Position	Status
HLSR	AC and DC current sensor	HLSR 100-P/SP14	2	Active - R
		HLSR 20-P	2	Active - R
HOB	Fast AC and DC current sensor	HOB 130-P	2	Active - R
		HOB 30-P	2	Active - R
LAH	AC and DC current sensor	LAH 100-P	2	Active - R
		LAH 25-NP	2	Active - R

R = Design Releasable



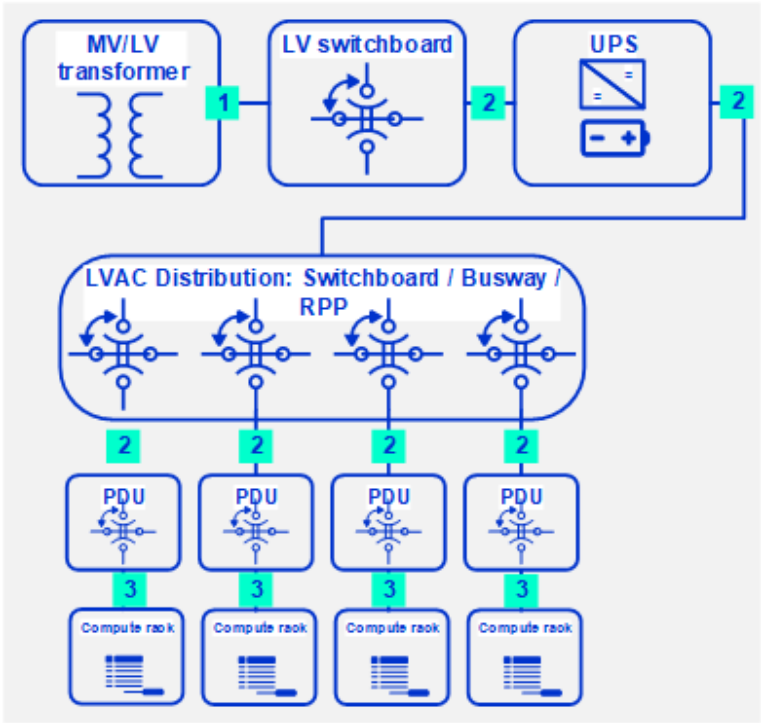
Datacenters | AC-based Architecture

Power Distribution



Value Proposition

LEM current sensors enable accurate main-feeder, branch and rack-level monitoring across AC data-center distribution. The portfolio supports transformer loading, UPS and PDU capacity management, phase balancing, overload detection and intelligent branch protection, from flexible Rogowski coils to compact PCB-integrated sensors.



AC GRID SENSORS

Family	Family Description	Product	Position	Status
AI-P1A	Integrator for Rogowski	AI-P1A	1	Active - R
AI-PMUL	Coils	AI-PMUL	1	Active - R
ART	Split-core AC Rogowski	ART-B22-D70	1	Active - R
		ART-B22-D125	1	Active - R
ARU	Coils Current Sensors	ARU-B100-D175	1	Active - R
		ARU-B100-D125	1	Active - R

INTEGRATED CURRENT SENSORS

Family	Family Description	Product	Position	Status
GO	AC and DC integrated current sensor, SOIC package	GO 10-SME	3	Active - R
		GO 30-SMS	3	Active - R
GXM	AC and DC integrated current sensor, SO10 package	GXM ANC 50-20 30010A	3	Coming soon - R
		GXM ANC 110-44 30010A	3	Active - R
GXS	AC and DC integrated current sensor, SO8 package	GXS ANF 10-4 50101A	3	Active - R
		GXS ANF 50-20 50001A	3	Active - R

POWER CONVERSION & CONTROL SENSORS

Family	Family Description	Product	Position	Status
HAT	AC and DC current sensor	HAT 200-S	2	Active - R
		HAT 2184-S/SP6	2	Active - R
HAX		HAX 500-S	2	Active - R
		HAX 1000-S	2	Active - R
HO		HO 50-S-0100	2	Active - R
HOYL		HOYL 800-S-0100	2	Active - R
		HOYL 200-S-0100	2	Active - R
		HOYS 810-SW/SPFA0	2	Active - R
HOYS		HOYS 100-S-0100	2	Active - R
			2	Active - R

R = Design Restratable



Datacenters

Full DC Architecture

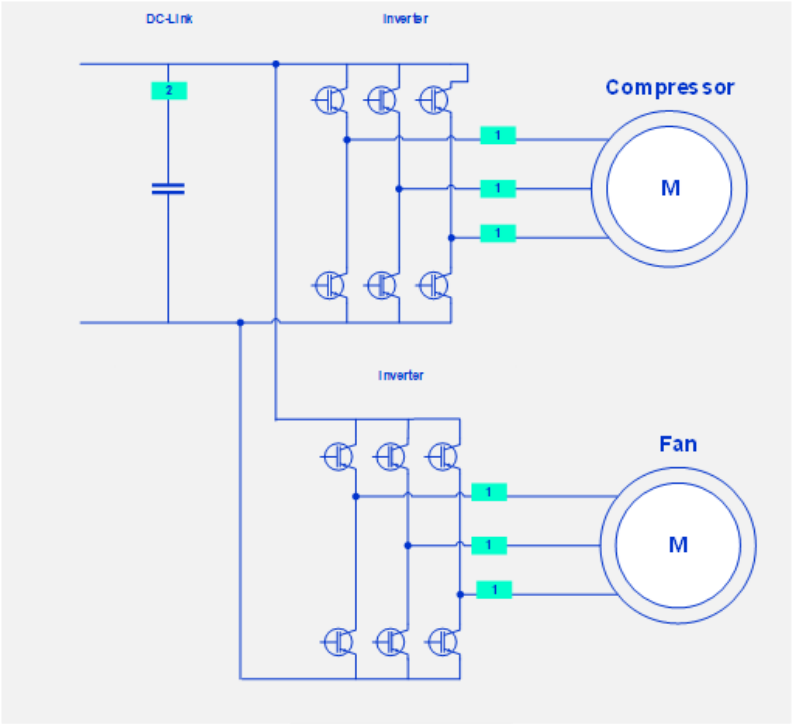


Datacenters | Full DC Architecture

Cooling & HVAC

Value Proposition

LEM sensing solutions enable efficient control and reliable protection of data-center cooling equipment across both AC-fed and 800 VDC-fed architectures. Current and voltage feedback supports PFC control, DC-link monitoring, individual drive measurement and precise motor control for compressors, fans, pumps, chillers and CDUs.



INTEGRATED CURRENT SENSORS

Family	Family Description	Product	Position	Status
GO	AC and DC integrated current sensor, SOIC package	GO 10-SMS	1	Active - R
		GO 20-SME	1	Active - R
GXM	AC and DC integrated current sensor, SO10 package	GXM ANC 100-40 50010A	1	Active - R
		GXM ANC 50-20 50010A	1	Active - R
		GXM ANC 75-30 30010A	1	Coming soon - R
HMSR	AC and DC integrated current sensor, SO16 package	HMSR 20-SMS	1	Active - R
		HMSR 15-SMS	1	Active - R

POWER CONVERSION & CONTROL SENSORS

Family	Family Description	Product	Position	Status
HAH1	AC and DC current sensor with multiphase options	HAH1BVW S/01	1	Active - R
HAX		HAX 1000-S	1	Active - R
HLSR		HLSR 20-P	1	Active - R
HOYL		HLSR 60-P	1	Active - R
HOYS	AC and DC current sensor	HOYL 200-S-0100	1	Active - R
LAH		HOYS 400-S-0100	1	Active - R
LF		LAH 100-P	1	Active - R
LKSR		LF 1010-S	1	Active - R
		LF 510-S	1	Active - R
		LKSR 25-NP	1	Active - R

VOLTAGE SENSORS

Family	Family Description	Product	Position	Status
DVL	AC and DC voltage sensor	DVL 1000	2	Active - R
		DVL 150	2	Active - R
		DVL 50	2	Active - R

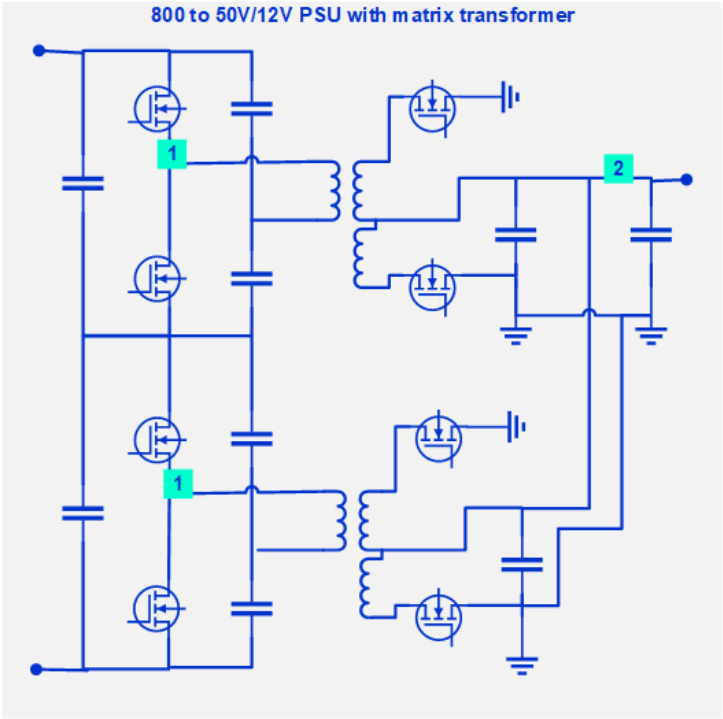


Datacenters | Full DC Architecture

Power Conversion (PSU)

Value Proposition

LEM integrated and isolated current sensors provide fast feedback for PFC, AC/DC and DC/DC stages. Compact integration, low insertion loss and fast overcurrent detection support precise control, higher power density and reliable protection in modern power supplies.



INTEGRATED CURRENT SENSORS

Family	Family Description	Product	Position	Status
GO	AC and DC integrated current sensor, SOIC package	GO 10-SME	1	Active - R
		GO 10-SMS	1	Active - R
		GO 20-SME	1	Active - R
GXM	AC and DC integrated current sensor, SO10 package	GXM ANC 50-20 30010A	1	Coming soon - R
		GXM ANC 80-32 30010A	1	Coming soon - R
GXS	AC and DC integrated current sensor, SO8 package	GXS ANF 50-20 50001A	1	Active - R
		GXS ANF 10-4 50101A	1	Active - R
		GXS ANF 20-8 51101A	1	Active - R

POWER CONVERSION & CONTROL SENSORS

Family	Family Description	Product	Position	Status
HLSR	AC and DC current sensor	HLSR 10-P	1	Active - R
		HLSR 16-P	1	Active - R
		HLSR 20-SM	1	Active - R
HOB	Fast AC and DC current sensor	HOB 100-P	2	Active - R
		HOB 50-P	2	Active - R
		HOB 75-P	2	Active - R
		HOB 130-P/SP1	2	Active - R
HOYL	AC and DC current sensor	HOYL 800-S-0100	2	Active - R
		HOYL 600-S-0100	2	Active - R
		HOYL 400-S-0100	2	Active - R
		HOYL 200-S-0100	2	Active - R
HOYS	AC and DC current sensor	HOYS 400-S-0100	1, 2	Active - R
		HOYS 200-S-0100	1	Active - R
		HOYS 560-S-0100	2	Active - R
LAH	AC and DC current sensor	LAH 25-NP	2	Active - R
		LAH 100-P	2	Active - R

R = Design Restrictable



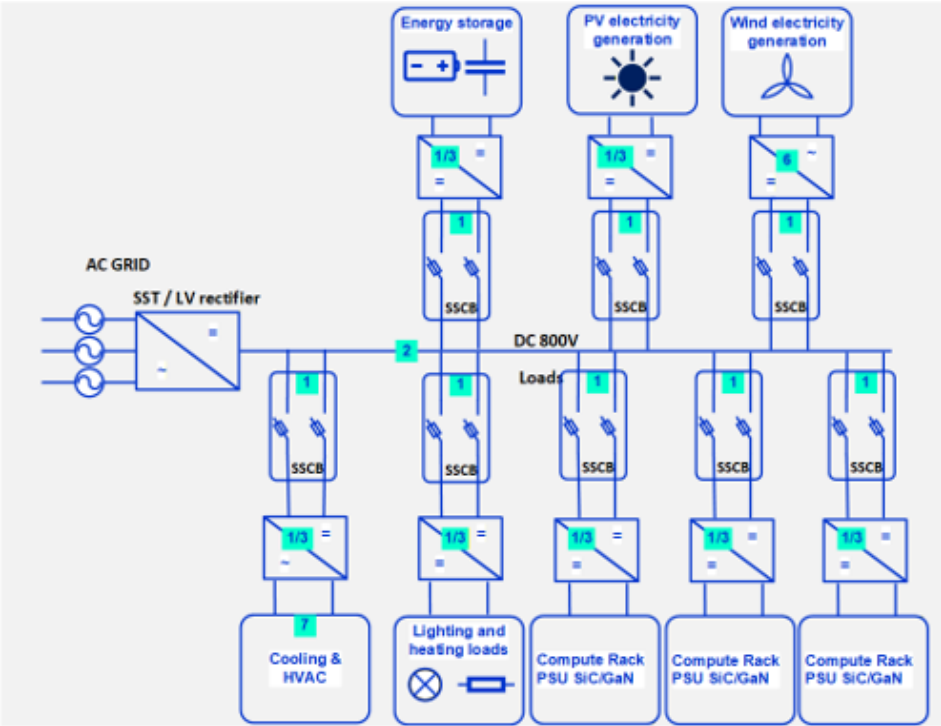
Datacenters | Full DC Architecture

Power Distribution



Value Proposition

LEM sensors deliver precise, robust DC-grid measurements that ensure reliable control, efficiency, and system protection. With compact, easy-to-integrate designs and wide current ranges, they simplify installation in both new and retrofit architectures—providing dependable performance from low-voltage distribution to high-power conversion systems.



INTEGRATED CURRENT SENSORS

Family	Family Description	Product	Position	Status
GO	AC and DC integrated current sensor, SOIC package	GO 10-SME	1	Active - R
		GO 10-SMS	1	Active - R
		GO 20-SME	1	Active - R
GXS	AC and DC integrated current sensor, SO8 package	GXS ANF 20-8 50101A	1	Active - R
		GXS ANF 25-10 50001A	1	Active - R
		GXS ANF 50-20 50001A	1	Active - R

POWER CONVERSION & CONTROL SENSORS

Family	Family Description	Product	Position	Status
FRS	Coreless AC and DC current sensor, Conditioned output	FRS 1000-S	1, 3	Active - R
		FRS 1000-SBI	1	Active - R
		FRS 1500-SU	1, 3	Active - R
		FRS 3000-SUI	1, 3	Active - R
		FRS 3000-SH	1	Active - R
		FRS 1500-SH	3	Active - R
HAT		FRS 3000-S	3	Active - R
		HAT 1000-S	3	Active - R
HAX		HAT 200-S	3	Active - R
		HAX 1000-S	3	Active - R
HO	AC and DC current sensor	HAX 4000-S	3	Active - R
		HO 100-P-0100	3	Active - R
		HO 120-NPW-0100	3	Active - R
		HO 250-S-010D	3	Active - R
HOB	Fast AC and DC current sensor	HO 25-P	3	Active - R
		HOB 30-P	1	Active - R
		HOB 100-P	1	Active - R
HOYL		HOYL 600-S-0100	3	Active - R
		HOYL 200-S-0100	3	Active - R
		HOYL 400-S-0100	3	Active - R
HOYS	AC and DC current sensor	HOYS 100-S-0100	3	Active - R
		HOYS 400-S-0100	3	Active - R
		HOYS 500-S-0100	3	Active - R

VOLTAGE SENSORS

Family	Family Description	Product	Position	Status
DVC	AC and DC voltage sensor PCB mounted	DVC 1000-P	2	Active - R
		DVL 2000	2	Active - R
DVL	AC and DC voltage sensor	DVL 1000	2	Active - R

R = Design Releasable

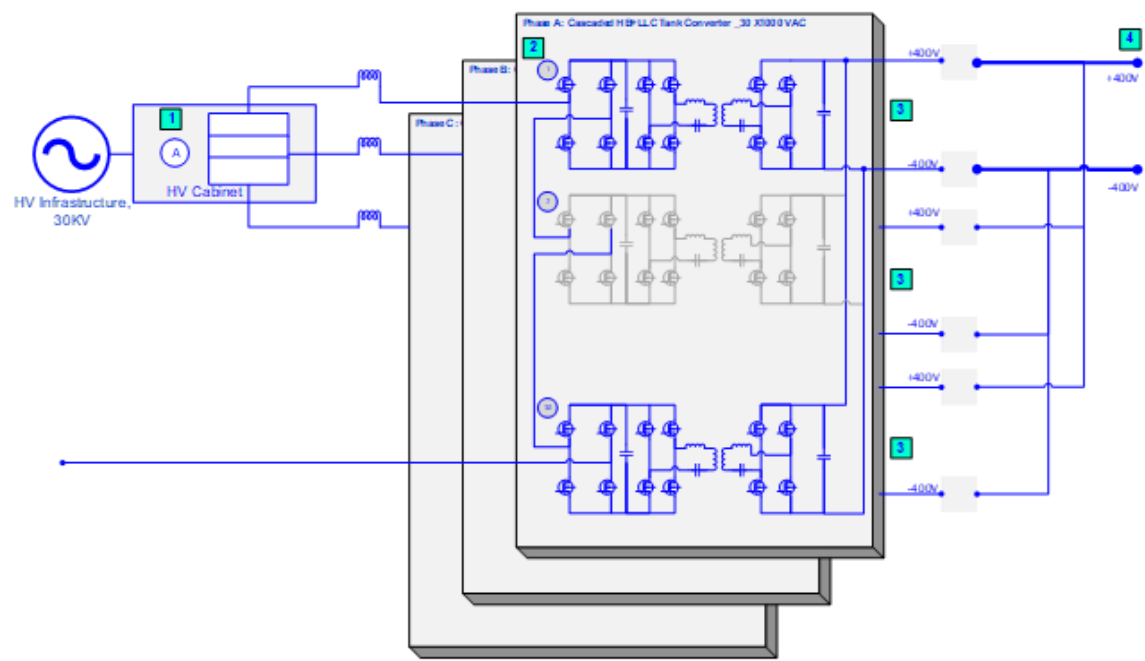


Datacenters | Full DC Architecture

Solid state transformer (SST)

Value Proposition

LEM sensing solutions enable efficient control and reliable protection of data-center cooling equipment across both AC-fed and 800 VDC-fed architectures. Current and voltage feedback supports PFC control, DC-link monitoring, individual drive measurement and precise motor control for compressors, fans, pumps, chillers and CDUs.



INTEGRATED CURRENT SENSORS

Family	Family Description	Product	Position	Status
GO	AC and DC integrated current sensor, SOIC package	GO 30-SMS	2	Active - R
GXM	AC and DC integrated current sensor, SO10 package	GXM ANC 80-32 50010A	2	Coming soon - R
GXN	AC and DC integrated current sensor, SO16 package	GXN ANC 80-32 50011A	2	Active - R
GXS	AC and DC integrated current sensor, SO8 package	GXS ANF 50-20 50001A	2	Active - R

POWER CONVERSION & CONTROL SENSORS

Family	Family Description	Product	Position	Status
FRS	Coreless AC and DC current sensor, Conditioned output	FRS 1000-S	2	Active - R
		FRS 3000-S	4	Active - R
HAT	AC and DC current sensor	HAT 200-S	1, 2	Active - R
HAZ	AC and DC current sensor, Conditioned output	HAZ 4000-SB	2, 4	Active - R
HLSR	AC and DC current sensor	HLSR 60-P	2	Active - R
HO		HO 200-S-0100	2	Active - R
HOB	Fast AC and DC current sensor	HOB 100-P	2	Active - R
HOYL	AC and DC current sensor	HOYL 200-S-0100	2	Active - R
HOYS		HOYS 200-S-0100	2	Active - R
LF		LF 510-S	1	Active - R

VOLTAGE SENSORS

Family	Family Description	Product	Position	Status
DVC	AC and DC voltage sensor PCB mounted	DVC 1000	3	Active - R
DVL	AC and DC voltage sensor	DVL 1000	3	Active - R

R = Design Releasable



Datacenters

Partial DC Architecture



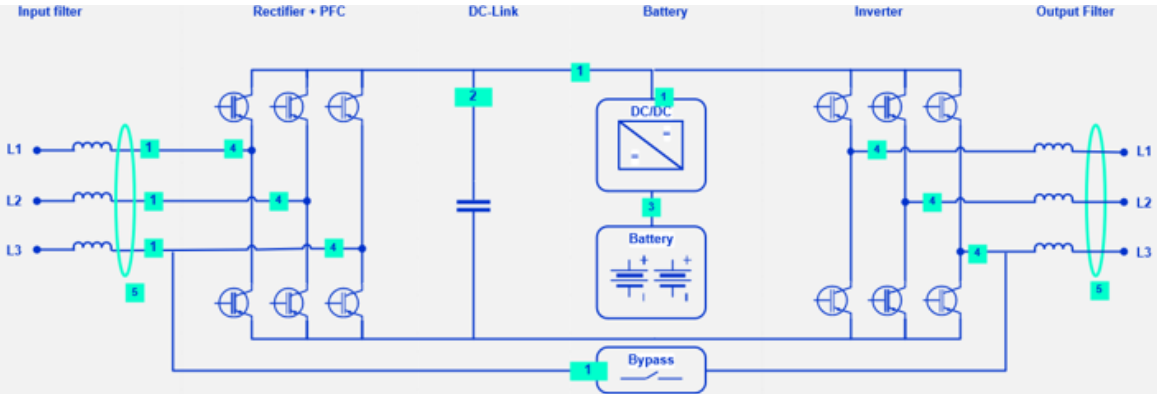
Datacenters | Partial DC Architecture

Back-up Power Supply



Value Proposition

LEM current sensors provide isolated feedback throughout the UPS power path, from input and output monitoring to active-rectifier, inverter and battery-converter control. Accurate current measurement supports power-factor correction, stable output regulation, battery charge/discharge control, current sharing and fast overcurrent protection, improving efficiency and availability in mission-critical data centers.



INTEGRATED CURRENT SENSORS

Family	Family Description	Product	Position	Status
GXM	AC and DC integrated current sensor, SO10 package	GXM ANC 50-20 30010A	4	Coming soon - R

LEAKAGE CURRENT SENSORS

Family	Family Description	Product	Position	Status
CTSR	High Accuracy AC and DC differential current sensor	CTSR 0.3-P	5	Active - R
		CTSR 3-TP/SP20	5	Active - R

POWER CONVERSION & CONTROL SENSORS

Family	Family Description	Product	Position	Status
HAT	AC and DC current sensor	HAT 2184-S/SP6	1, 3	Active - R
HAX		HAT 200-S	1, 3	Active - R
HAX		HAX 1000-S	1, 3	Active - R
HLSR	Fast AC and DC current sensor	HAX 500-S	1, 3	Active - R
HLSR		HLSR 20-P	1, 3, 4	Active - R
HLSR		HLSR 100-P/SP14	1, 3, 4	Active - R
HOB	AC and DC current sensor	HOB 130-P	2	Active - R
HOB		HOB 30-P	2	Active - R
HOYL		HOYL 200-S-0100	1, 3	Active - R
HOYL	AC and DC current sensor	HOYL 800-S-0100	1, 3	Active - R
HOYS		HOYS 100-S-0100	1, 3	Active - R
HOYS		HOYS 810-SW/SPFA0	1, 3	Active - R
HTA	AC and DC current sensor	HTA 100-S	1, 3	Active - R
HTA		HTA 1000-S	1, 3	Active - R
LAH		LAH 25-NP	1, 3	Active - R
LAH	AC and DC current sensor	LAH 100-P	1, 3	Active - R
LES		LES 15-NP	1, 3	Active - R
LF		LF 1010-S	3	Active - R
LF	AC and DC current sensor	LF 510-S	3	Active - R
LXSR		LXSR 6-NPS	1, 3	Active - R
LZSR		LZSR 80-P	1, 3	Active - R

VOLTAGE SENSORS

Family	Family Description	Product	Position	Status
DVL	AC and DC voltage sensor	DVL 1000	2	Active - R
DVL		DVL 50	2	Active - R
DVM		DVM 4200	2	Active - R
DVM	AC and DC voltage sensor	DVM 1800	2	Active - R

R = Design Releasable

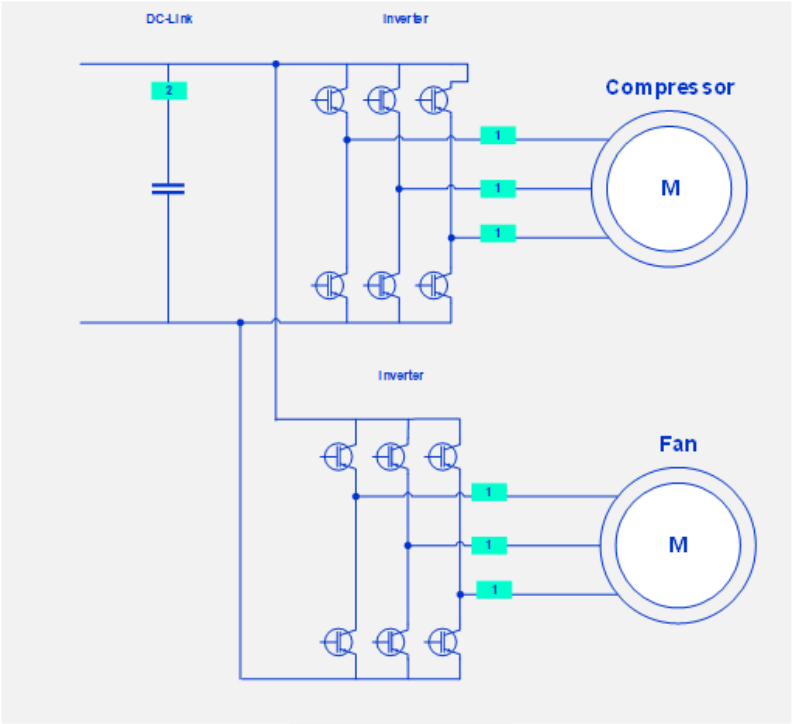


Datacenters | Partial DC Architecture

Cooling & HVAC

Value Proposition

LEM sensing solutions enable efficient control and reliable protection of data-center cooling equipment across both AC-fed and 800 VDC-fed architectures. Current and voltage feedback supports PFC control, DC-link monitoring, individual drive measurement and precise motor control for compressors, fans, pumps, chillers and CDUs.



INTEGRATED CURRENT SENSORS

Family	Family Description	Product	Position	Status
GO	AC and DC integrated current sensor, SOIC package	GO 10-SME	1	Active - R
		GO 30-SMS	1	Active - R
GXM	AC and DC integrated current sensor, SO10 package	GXM ANC 50-20 30010A	1	Coming soon - R
HMSR	AC and DC integrated current sensor, SO16 package	HMSR 30-SMS	1	Active - R
		HMSR 6-SMS	1	Active - R

POWER CONVERSION & CONTROL SENSORS

Family	Family Description	Product	Position	Status
HAH1	AC and DC current sensor with multiphase options	HAH1DRW 900-S	1	Active - R
		HAH1DRW 200-S	1	Active - R
HAX		HAX 1000-S	1	Active - R
		HAX 500-S	1	Active - R
		HAX 600-S	1	Active - R
HLSR		HLSR 100-P/SP14	1	Active - R
		HLSR 20-P	1	Active - R
LAH	AC and DC current sensor	LAH 100-P	1	Active - R
LES		LAH 50-P	1	Active - R
LF		LES 15-NP	1	Active - R
		LF 1010-S	1	Active - R
LXSR		LF 2010-S	1	Active - R
		LF 510-S	1	Active - R
LZSR		LXSR 6-NPS	1	Active - R
		LZSR 80-P	1	Active - R

VOLTAGE SENSORS

Family	Family Description	Product	Position	Status
DVL	AC and DC voltage sensor	DVL 500	2	Active - R
		DVL 1000	2	Active - R

R = Design Releasable



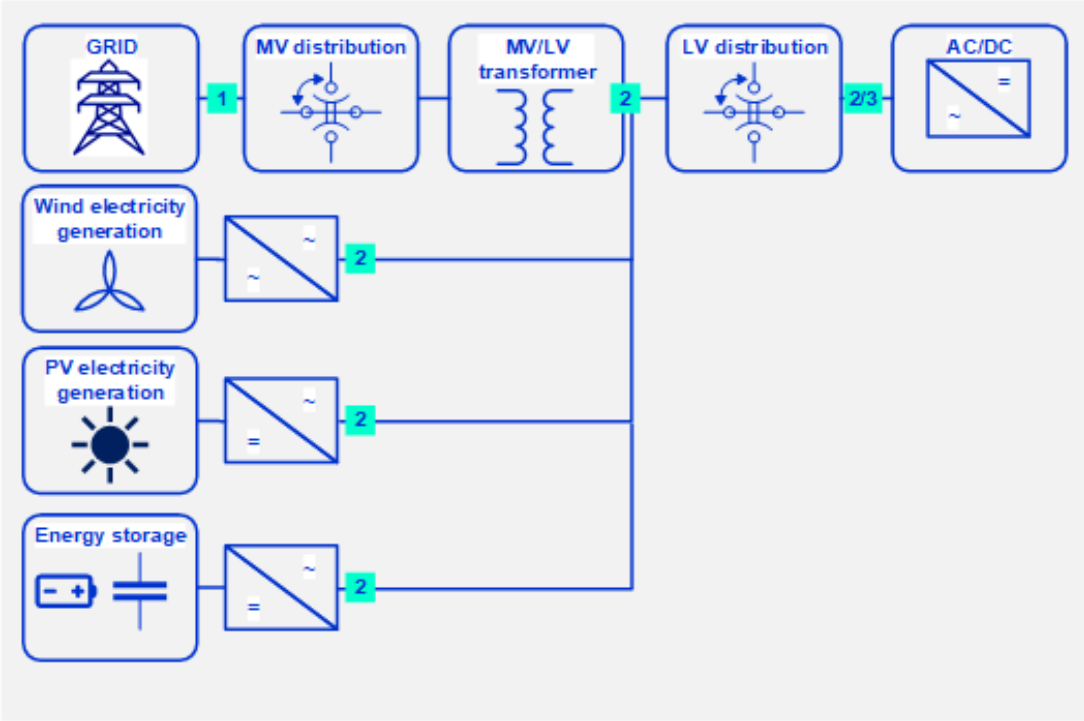
Datacenters | Partial DC Architecture

Grid Infrastructure



Value Proposition

Class 0.5 and 1 current sensors deliver highly accurate and reliable measurements, ensuring trustworthy data for billing, load analysis, and power-quality monitoring. Their flexible split-core construction enables non-intrusive, hassle-free installation, making them ideal for retrofit projects without operational downtime. Designed to scale across a wide range of applications—from standard low-voltage panels to high-current busbars—they provide a robust solution capable of handling currents from tens to thousands of amps.



AC GRID SENSORS

Family	Family Description	Product	Position	Status
AI-P1A	Integrator for Rogowski	AI-P1A	2	Active - R
AI-PMUL	Coils	AI-PMUL	2	Active - R
AK	Split-core AC current sensor, Conditioned output	AK 50 B10	3	Active - R
		AK 50 B420L	3	Active - R
AP	Split-core AC Rogowski Coils Current Sensors	AP 50 B10	3	Active - R
		AP 100 B420L	3	Active - R
		AP 400 B420L	3	Active - R
ART	Split-core AC Rogowski Coils Current Sensors	ART-B22-D125	2	Active - R
		ART-B22-D70	2	Active - R
ARU	Split-core AC Rogowski Coils Current Sensors	ARU-B100-D175	2	Active - R
		ARU-B100-D250	2	Active - R
		ARU-B100-D125	2	Active - R
ATO	Split-core AC current sensor, Conditioned output	ATO-75-B1I-D10	3	Active - R
		ATO-125-B225-D16	3	Active - R

HIGH PRECISION CURRENT SENSORS

Family	Family Description	Product	Position	Status
ITC	Ultra high precision AC and DC current sensor for traction	ITC 4000-S	1	Active
		ITC 4000-S/SP2	1	Active
ITL	Ultra high precision AC and DC current sensor	ITL 4000-S	1	Active

R = Design Releasable



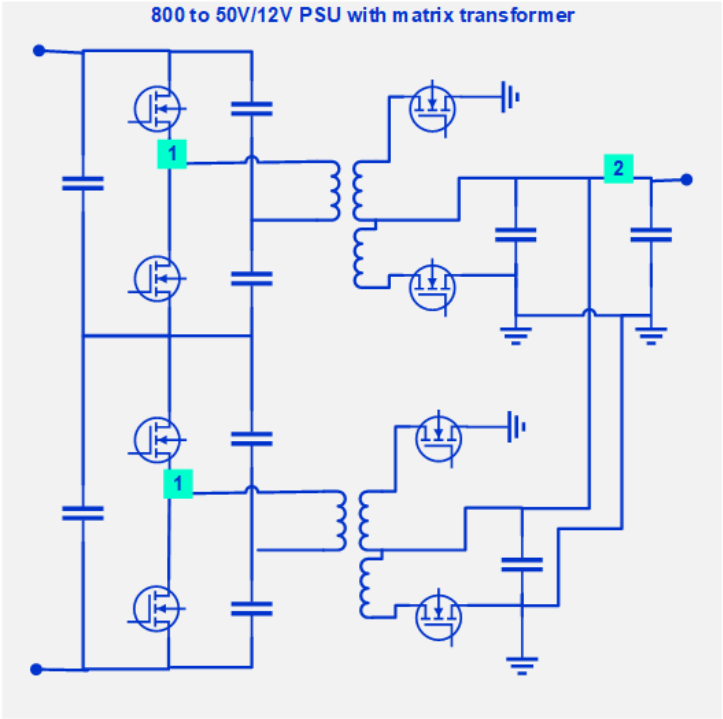
Datacenters | Partial DC Architecture

Power Conversion (PSU)



Value Proposition

LEM integrated and isolated current sensors provide fast feedback for PFC, AC/DC and DC/DC stages. Compact integration, low insertion loss and fast overcurrent detection support precise control, higher power density and reliable protection in modern power supplies.



INTEGRATED CURRENT SENSORS

Family	Family Description	Product	Position	Status
GO	AC and DC integrated current sensor, SOIC package	GO 10-SME	1	Active - R
		GO 30-SMS	1	Active - R
GXM	AC and DC integrated current sensor, SO10 package	GXM ANC 50-20 30010A	1	Coming soon - R
		GXM ANC 110-44 30010A	1	Active - R
GXS	AC and DC integrated current sensor, SO8 package	GXS ANF 10-4 50101A	1	Active - R
		GXS ANF 50-20 50001A	1	Active - R

POWER CONVERSION & CONTROL SENSORS

Family	Family Description	Product	Position	Status
HLSR	AC and DC current sensor	HLSR 100-P/SP14	1, 2	Active - R
HOB	Fast AC and DC current sensor	HOB 30-P	1	Active - R
		HOB 130-P	1	Active - R
HOYL		HOYL 200-S-0100	1	Active - R
		HOYL 800-S-0100	1	Active - R
HOYS	AC and DC current sensor	HOYS 500-S-0100	1	Active - R
		HOYS 200-S-0100	1	Active - R
LAH		LAH 25-NP	2	Active - R
		LAH 100-P	2	Active - R

R = Design Releasable



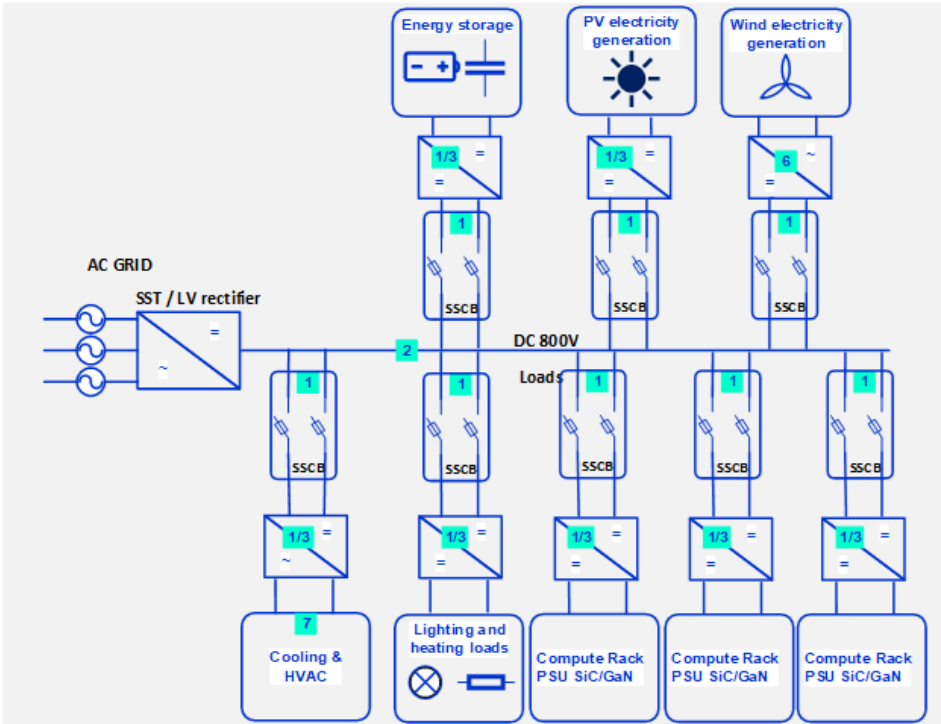
Datacenters | Partial DC Architecture

Power Distribution



Value Proposition

LEM sensors deliver precise, robust DC-grid measurements that ensure reliable control, efficiency, and system protection. With compact, easy-to-integrate designs and wide current ranges, they simplify installation in both new and retrofit architectures—providing dependable performance from low-voltage distribution to high-power conversion systems.



INTEGRATED CURRENT SENSORS

Family	Family Description	Product	Position	Status
GO	AC and DC integrated current sensor, SOIC package	GO 10-SME	1	Active - R
		GO 30-SMS	1	Active - R
GXS	AC and DC integrated current sensor, SO8 package	GXS ANF 10-4 50101A	1	Active - R
		GXS ANF 50-20 50001A	1	Active - R

POWER CONVERSION & CONTROL SENSORS

Family	Family Description	Product	Position	Status
FRS	Coreless AC and DC current sensor, Conditioned output	FRS 1000-S	1, 3	Active - R
		FRS 1500-SBI	1, 3	Active - R
HAT	AC and DC current sensor	HAT 200-S	3	Active - R
HAX		HAT 2184-S/SP6	3	Active - R
		HAX 500-S	3	Active - R
		HAX 1000-S	3	Active - R
HLSR		HLSR 20-P	1, 3	Active - R
		HLSR 100-P/SP10	1, 3	Active - R
HO		HO 50-S-0100	3	Active - R
	HO 250-S-010D	3	Active - R	
HOB	Fast AC and DC current sensor	HOB 30-P	1	Active - R
		HOB 130-P	1	Active - R
HOYL	AC and DC current sensor	HOYL 200-S-0100	1, 3	Active - R
		HOYL 800-S-0100	1, 3	Active - R
LAH		LAH 25-NP	3	Active - R
		LAH 100-P	3	Active - R

VOLTAGE SENSORS

Family	Family Description	Product	Position	Status
DVC	AC and DC voltage sensor PCB mounted	DVC 1000-P	2	Active - R
		DVC 1000-UI	2	Active - R

R = Design Releasable



Home & Building

General



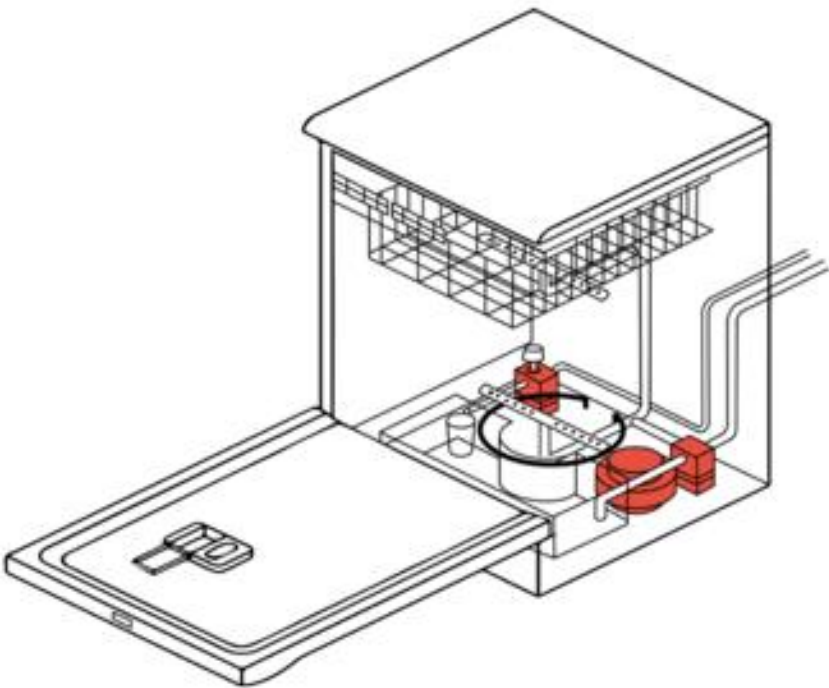
Home & Building | General

White Goods



Value Proposition

LEM offers a wide range of Hall-based current sensing ICs for White Goods, delivering a reduced PCB footprint, improved energy efficiency, built-in galvanic isolation, and high long-term reliability



INTEGRATED CURRENT SENSORS

Family	Family Description	Product	Position	Status
GO	AC and DC integrated current sensor, SOIC package	GO 10-SME	1	Active - R
		GO 20-SME	1	Active - R
		GO 10-SMS	1	Active - R
		GO 20-SMS	1	Active - R
GXN	AC and DC integrated current sensor, SO16 package	GXN ANC 33-13 30011A	1	(blank) - R
		GXN ANC 20-8 50011A	1	Active - R
		GXN ANC 40-16 50011A	1	Active - R
		GXN ANC 50-20 50011A	1	Active - R
HMSR		HMSR 6-SMS	1	Active - R
		HMSR 8-SMS	1	Active - R
		HMSR 10-SMS	1	Active - R
		HMSR 20-SMS	1	Active - R

R = Design Restrictable



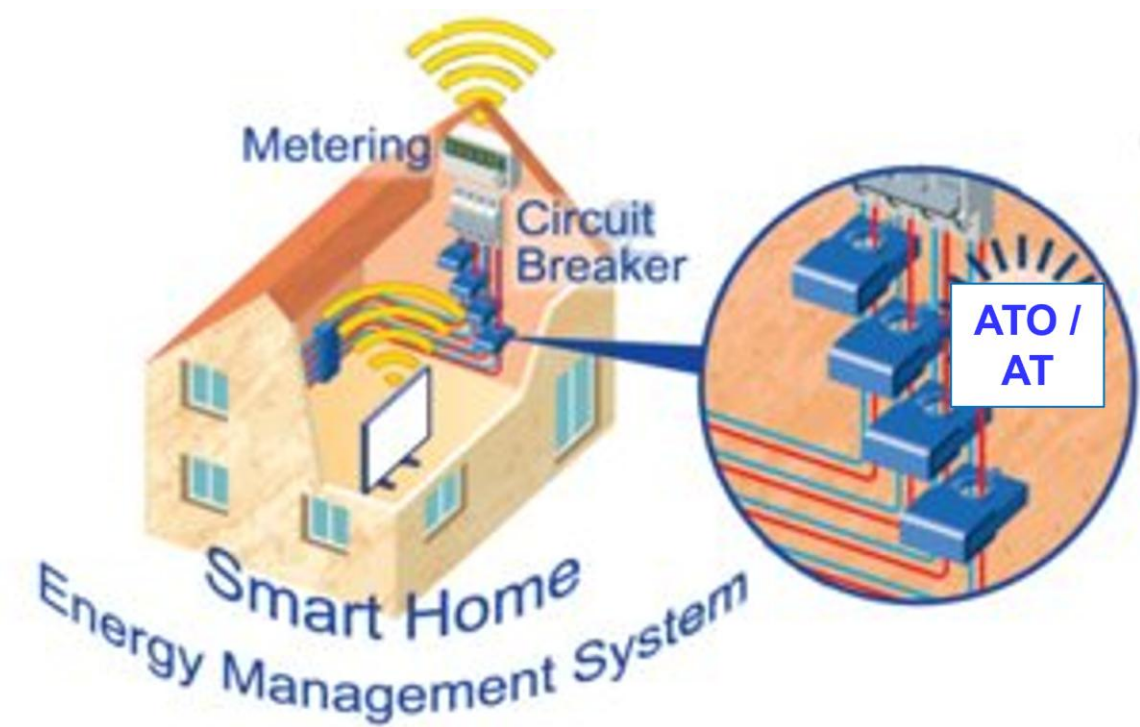
Home & Building | General

Smart Home



Value Proposition

LEM split-core CTs offer quick, hassle-free installation, providing a true plug-and-play solution for modern smart home systems. They connect easily to smart metering modules, simplifying system integration and setup



AC GRID SENSORS

Family	Family Description	Product	Position	Status
AT	Split-core AC current sensor, Conditioned output	AT 150 B10	1	Active - R
		AT 5 B420L	1	Active - R
		AT 10 B420L	1	Active - R
		AT 20 B420L	1	Active - R
		AT 100 B420L	1	Active - R
ATO		AT 150 B420L	1	Active - R
		ATO-75-B1I-D10	1	Active - R
		ATO-75-B333-D10	1	Active - R
		ATO-125-B225-D16	1	Active - R

R = Design Releasable



Industrial Automation



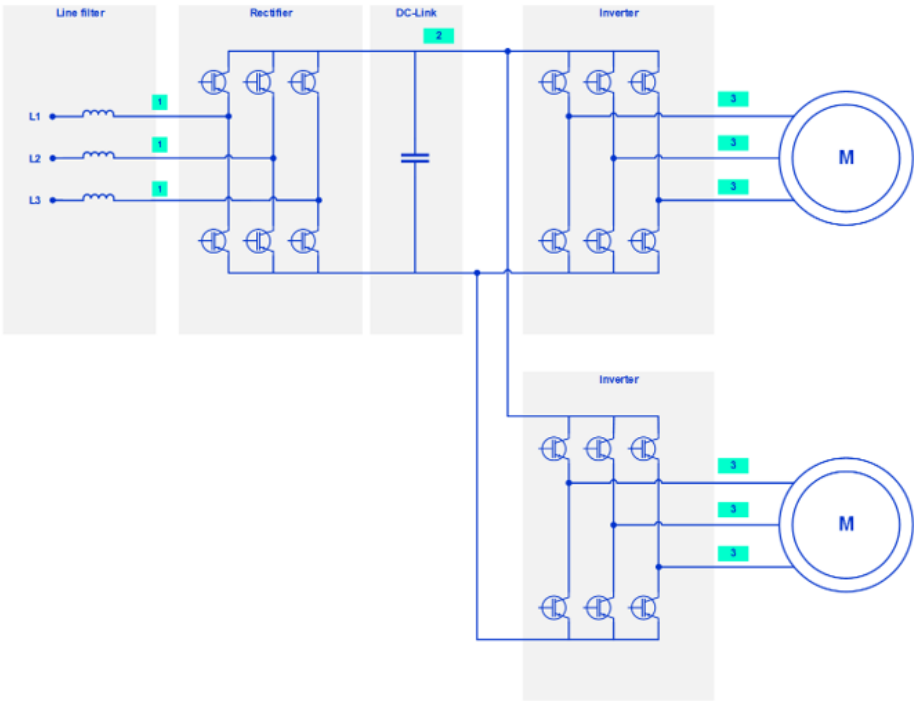
Industrial | Automation

Drives & Controls



Value Proposition

LEM's wide portfolio covers all varieties in automation applications needs for best-in-class control and monitoring sensing concerning accuracy, temperature & long term stability, reliability, quality, compliance & conformity, power variety, implementation, cost, signal dynamics, protection features and customization.



POWER CONVERSION & CONTROL SENSORS

Family	Family Description	Product	Position	Status
HOYL	AC and DC current sensor	HOYL 200-S-0100	1, 2, 3	Active - R
		HOYL 800-S-0100	1, 2, 3	Active - R
HOYS		HOYS 810-SW/SPFAQ	1, 2	Active - R
		HOYS 100-S-0100	1, 2, 3	Active - R
		HOYS 500-S-0100	3	Active - R
LA		LA 100-P/SP4	1, 2, 3	Active - R
LAH		LAH 100-P/SP10	1, 2, 3	Active - R
LF		LF 2010-S	1, 2, 3	Active - R
		LF 510-S	1, 2, 3	Active - R
		LF 1010-S	1, 2, 3	Active - R

R = Design Releasable



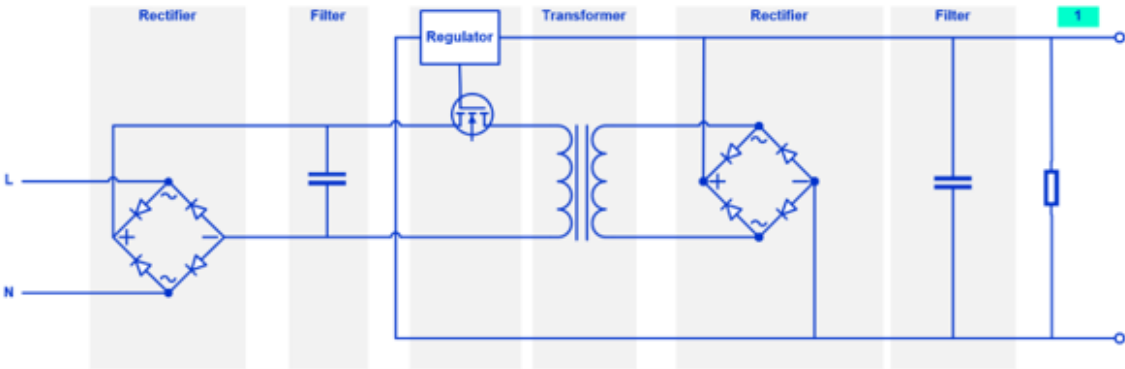
Industrial | Automation

Industrial Power Supply



Value Proposition

LEM's Integrated Current Sensors deliver compact, accurate, galvanically isolated current measurement that reduces PCB footprint and enhances efficiency in high-density industrial power supplies. They simplify design by addressing thermal, EMI, and isolation challenges while ensuring high reliability and low power consumption for safer, smarter next-generation systems.



INTEGRATED CURRENT SENSORS

Family	Family Description	Product	Position	Status
GO	AC and DC integrated current sensor, SOIC package	GO 10-SME	1	Active - R
		GO 20-SME	1	Active - R
		GO 10-SMS	1	Active - R
		GO 30-SMS	1	Active - R
GXM	AC and DC integrated current sensor, SO10 package	GXM ANC 50-20 30010A	1	Coming soon - R
		GXM ANC 110-44 30010A	1	Active - R
GXS	AC and DC integrated current sensor, SO8 package	GXS ANF 20-8 50101A	1	Active - R
		GXS ANF 50-20 50001A	1	Active - R
HMSR	AC and DC integrated current sensor, SO16 package	HMSR 6-SMS	1	Active - R
		HMSR 30-SMS	1	Active - R

R = Design Releasable



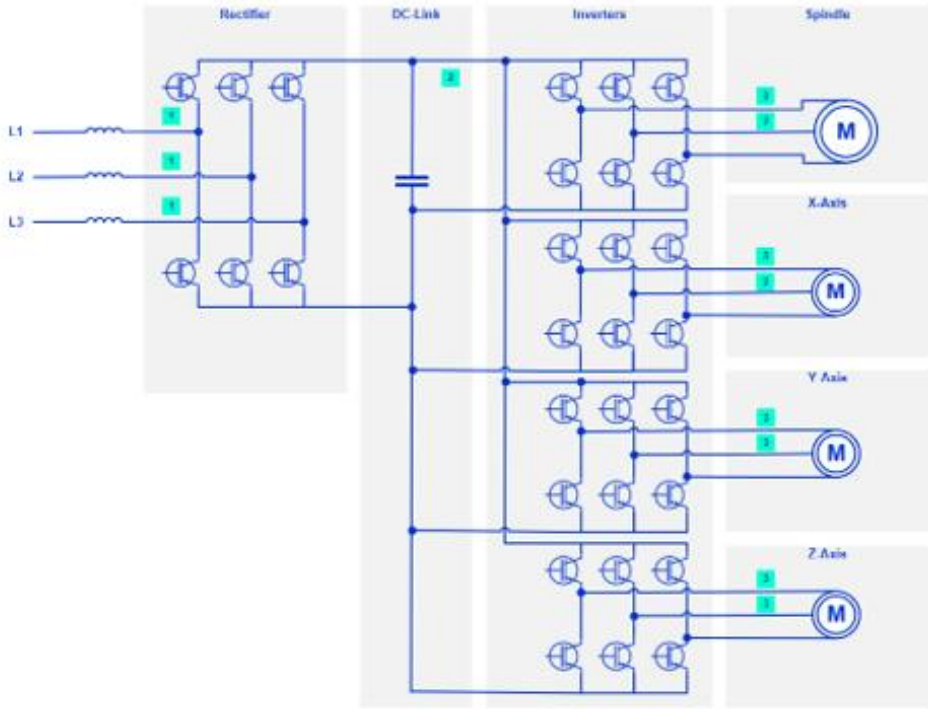
Industrial | Automation

Robotics and Multi-axis tools



Value Proposition

LEM digital output hall current sensors with pulse density delta sigma modulator, RS422 or LVDS allow for same bitstream signal processing chain used for shunt sensing. Same DSP architecture can be used in platform developments for shunt with digital isolated couplers in low power and hall based in higher power versions, where losses and isolation matter.



POWER CONVERSION & CONTROL SENSORS

Family	Family Description	Product	Position	Status
HLSR	AC and DC current sensor	HLSR 16-PW-000	1, 2, 3	Active - R
		HLSR 32-PW-000	1, 2, 3	Active - R
		HLSR 40-PW-000	1, 2, 3	Active - R
HO		HOF 150-PW	1, 2, 3	Active - R
HOYS		HOYS 540-SW/SPFA0	1, 2, 3	Active - R
		HOYS 700-SW/SPFA0	1, 2, 3	Active - R
		HOYS 400-SW/SPFA0	1, 2, 3	Active - R
		HOYS 450-SW/SPFA0	1, 2, 3	Active - R
		HOYS 500-SW/SPFA0	1, 2, 3	Active - R

R = Design Releasable



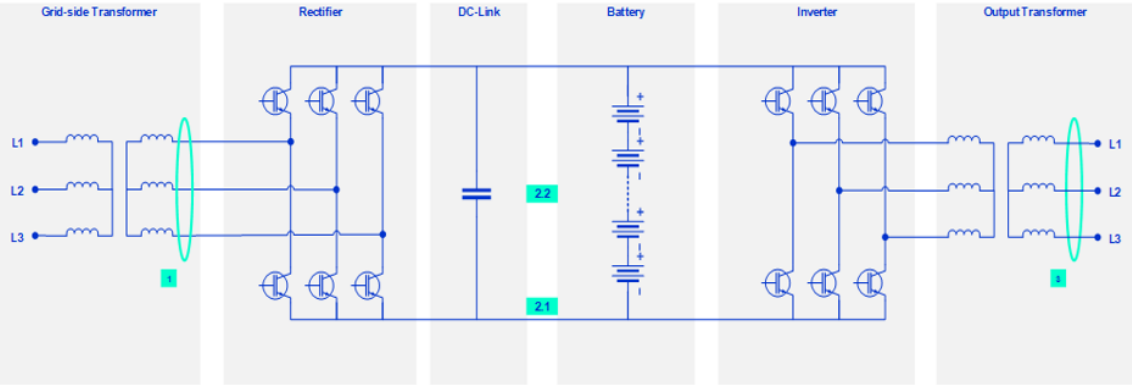
Industrial | Automation

UPS



Value Proposition

Accurate isolated load-current measurement ensures stable power regulation and reduces overload risk, while fast anomaly detection enables reliable switching to battery backup during outages. Precise current sensing also improves efficiency and power quality by optimizing energy usage and filtering disturbances such as spikes, short interruptions, and electrical noise. These capabilities enhance overall system reliability and safety for mission-critical environments including hospitals, datacenters, and telecom infrastructure.



POWER CONVERSION & CONTROL SENSORS

Family	Family Description	Product	Position	Status
HLSR	AC and DC current sensor	HLSR 25-P/SPH00	1, 2, 3	Active - R
		HLSR 100-P/SP14	1, 2, 3	Active - R
HO		HO 50-S-0100	1, 2, 3	Active - R
		HO 250-S-0100	1, 2, 3	Active - R
HOYL		HOYL 200-S-0100	1, 2, 3	Active - R
		HOYL 800-S-0100	1, 2	Active - R
HOYS		HOYS 100-S-0100	1, 2, 3	Active - R
		HOYS 810-SW/SPFA0	1, 2, 3	Active - R

VOLTAGE SENSORS

Family	Family Description	Product	Position	Status
CV	High Accuracy AC and DC voltage sensor	CV 3-2000	2	Active - R
DV		DV 6400	2	Active - R
DVM	AC and DC voltage sensor	DVM 1800	2	Active - R
		DVM 2000	2	Active - R
		DVM 3000	2	Active - R
		DVM 3600	2	Active - R
		DVM 4200	2	Active - R
LV (Voltage)		LV 100-1000/SP20	2	Active - R

R = Design Releasable



Industrial

High Precision



Industrial | High Precision

Factory Automation / STATCOM



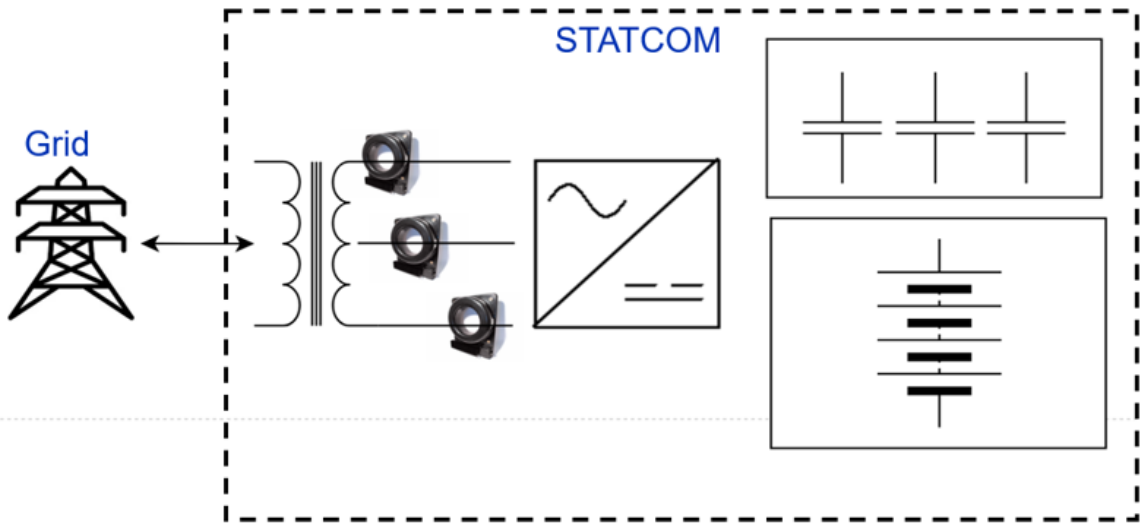
Value Proposition

The ITL 4000-S provides accurate AC current measurement comparable to a conventional current transformer, with the additional capability to detect DC components. Monitoring DC is important because even small offsets can lead to transformer saturation and increased thermal stress. Industry guidelines typically limit DC injection to approximately 0.5% of the nominal current, and the ITL 4000-S supports compliance with these requirements.

HIGH PRECISION CURRENT SENSORS

Family	Family Description	Product	Position	Status
ITL	Ultra high precision AC and DC current sensor	ITL 4000-S	1	Active

R = Design Releasable



Industrial | High Precision

Power Analyzers



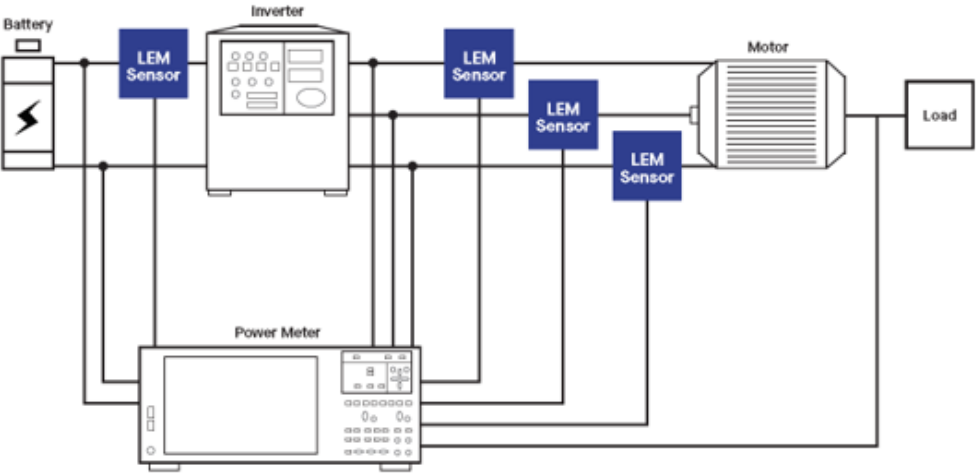
Value Proposition

IN Series fluxgate transducers provide ppm-level DC accuracy—down to 1 ppm (0.0001%)—supporting precision loss measurement and efficiency evaluation in industrial and automotive systems. They also offer galvanic isolation with very low coupling capacitance of only a few picofarads, minimizing common-mode interference in high-dv/dt environments such as SiC-based inverters.

HIGH PRECISION CURRENT SENSORS

Family	Family Description	Product	Position	Status
IN	Ultra high precision AC and DC current sensor	IN 100-S	1	Active
		IN 1000-SHF	1	Active
		IN 1000-S	1	Active
IT		IT 200-S ULTRASTAB	1	Active
		IT 1000-S/SP1 ULTRASTAB	1	Active
		IT 60-S ULTRASTAB	1	Active
ITN		ITN 12-P ULTRASTAB	1	Active
		ITN 900-S ULTRASTAB	1	Active

R = Design Releasable



Industrial

Medical



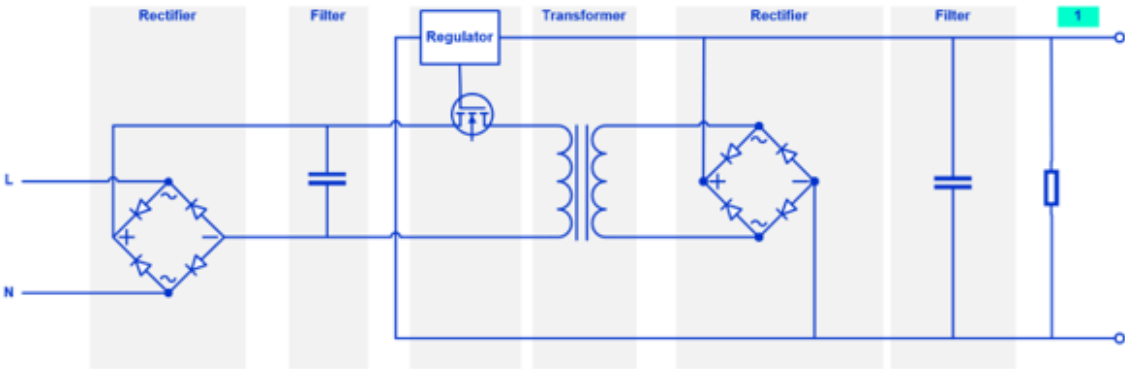
Industrial | Medical

MRT Power Supply



Value Proposition

LEM's Integrated Current Sensors deliver compact, accurate, galvanically isolated current measurement that reduces PCB footprint and enhances efficiency in high-density industrial power supplies. They simplify design by addressing thermal, EMI, and isolation challenges while ensuring high reliability and low power consumption for safer, smarter next-generation systems



INTEGRATED CURRENT SENSORS

Family	Family Description	Product	Position	Status
GO	AC and DC integrated current sensor, SOIC package	GO 10-SME	1	Active - R
		GO 20-SME	1	Active - R
		GO 10-SMS	1	Active - R
		GO 30-SMS	1	Active - R
GXM	AC and DC integrated current sensor, SO10 package	GXM ANC 50-20 30010A	1	Coming soon - R
		GXM ANC 110-44 30010A	1	Active - R
GXS	AC and DC integrated current sensor, SO8 package	GXS ANF 20-8 50101A	1	Active - R
		GXS ANF 50-20 50001A	1	Active - R
HMSR	AC and DC integrated current sensor, SO16 package	HMSR 6-SMS	1	Active - R
		HMSR 30-SMS	1	Active - R

R = Design Releasable



Rail Infrastructure

Trackside

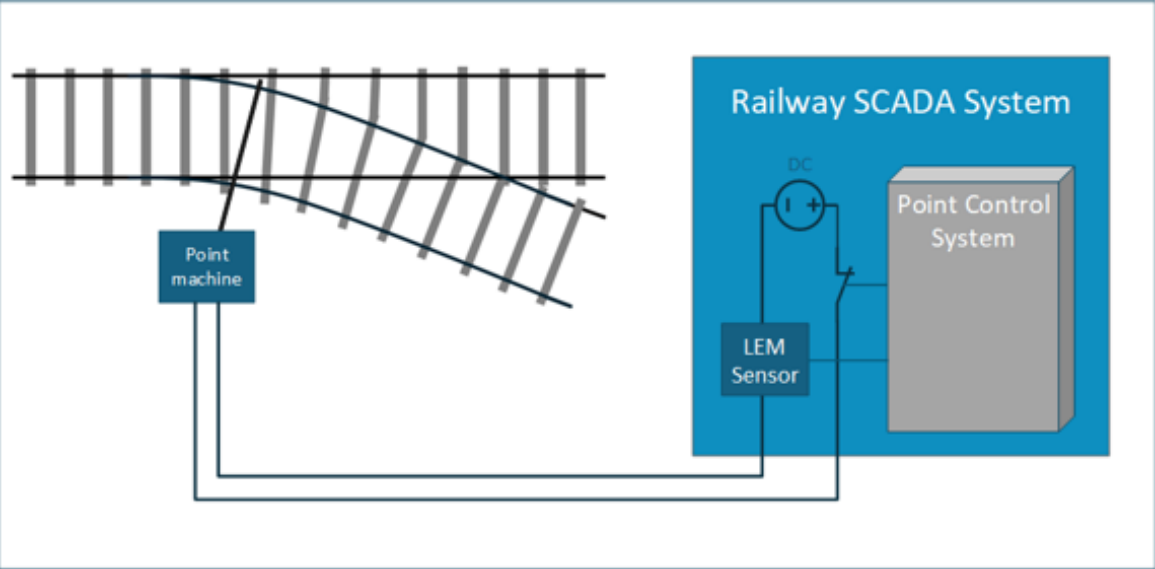


Rail Infrastructure | Trackside

Point machine control

Value Proposition

Split-core designs enable installation in existing point-machine systems without opening the primary current path, while PCB-mounted versions address requirements in new point-machine control units. High-accuracy current measurement is maintained with less than 1% error at rated current. More than 20 years of use in trackside environments demonstrates the long-term reliability of these solutions.



POWER CONVERSION & CONTROL SENSORS

Family	Family Description	Product	Position	Status
CASR	High Accuracy AC and DC current sensor	CASR 6-NP	1	Active - R
		CASR 15-NP	1	Active - R
		CASR 25-NP	1	Active - R
HTRS	Split-core AC and DC current sensor for trackside	HTRS 10-SBI	1	Active - R
		HTRS 30-SBI	1	Active - R
		HTRS 50-SBI	1	Active - R
LXSR	AC and DC current sensor	LXSR 6-NPS	1	Active - R
		LXSR 15-NPS	1	Active - R
		LXSR 25-NPS	1	Active - R
PCM	AC and DC current sensor for trackside	PCM 10-P/SP3	1	Active - R

R = Design Releasable



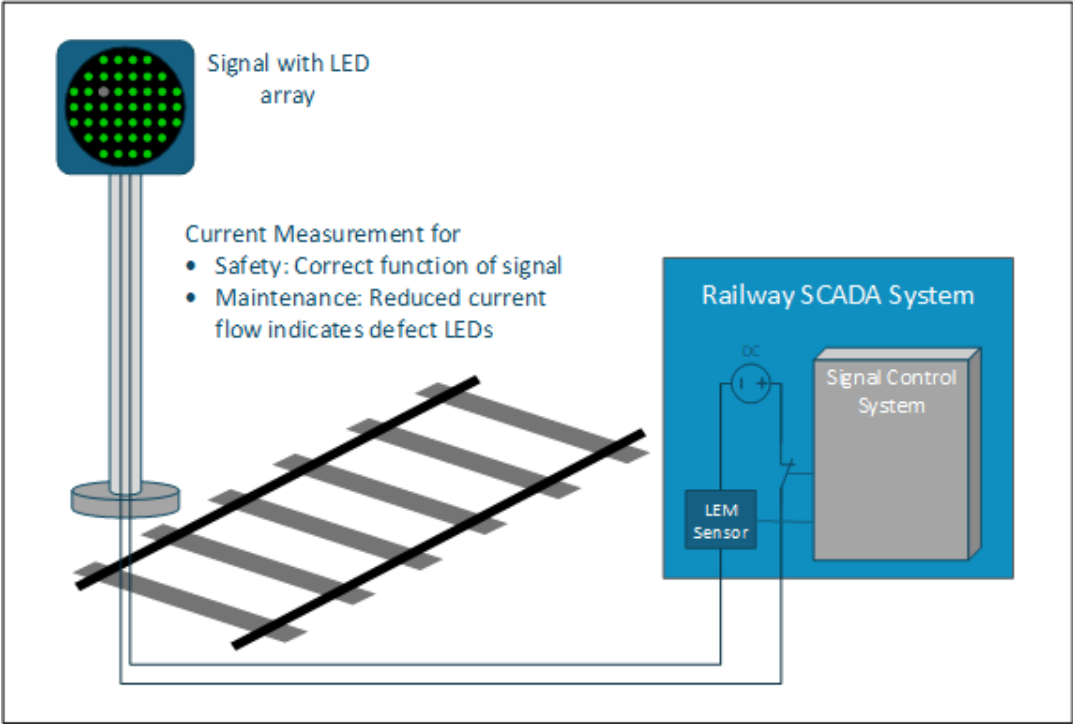
Rail Infrastructure | Trackside

Signal Control



Value Proposition

High-accuracy current measurement is achieved with less than 1% error at rated current. Multi-range capability, including DC measurements below 100 mA when primary jumpers are connected in series, enables detection of failed LEDs in LED arrays. Long-term reliability is demonstrated by more than 20 years of use in trackside applications.



POWER CONVERSION & CONTROL SENSORS

Family	Family Description	Product	Position	Status
CASR	High Accuracy AC and DC current sensor	CASR 6-NP	1	Active - R
		CASR 15-NP	1	Active - R
		CASR 25-NP	1	Active - R
CKSR		CKSR 6-NP	1	Active - R
		CKSR 15-NP	1	Active - R
		CKSR 25-NP	1	Active - R
LXSR		AC and DC current sensor	LXSR 6-NPS	1
	LXSR 15-NPS		1	Active - R
	LXSR 25-NPS		1	Active - R

R = Design Releasable





Life Energy Motion



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