

AI-PMUL

DIGITAL INTEGRATOR FOR ROGOWSKI COIL

COMPLY WITH **ART** and **ARU** RANGE



The universal Rogowski coil integrator AI-PMUL compliments LEM's flexible clip-around coil ART and ARU range. The design is based on cutting edge technology to give combined **dynamic range, precision and versatility of use**. It offers a wide range of outputs both RMS and instantaneous. AI-PMUL is DIN rail mounted and can be stacked for multiphase application without spacing thanks to its low power dissipation.

Input signal

Rogowski coil sensitivity	22.5, 70, 80, 85, 100, 120 mV/kA (@ 50 Hz)
Current measurement range	100, 200, 300, 400, 500, 600, 800, 1000, 1500, 2000, 4000, 5000 A
Overcurrent measurement range	120 % of selected range (overcurrent indication by LED)
Rated frequency	50/60 Hz
Frequency bandwidth (- 3dB)	4 - 1600 Hz

Output signal

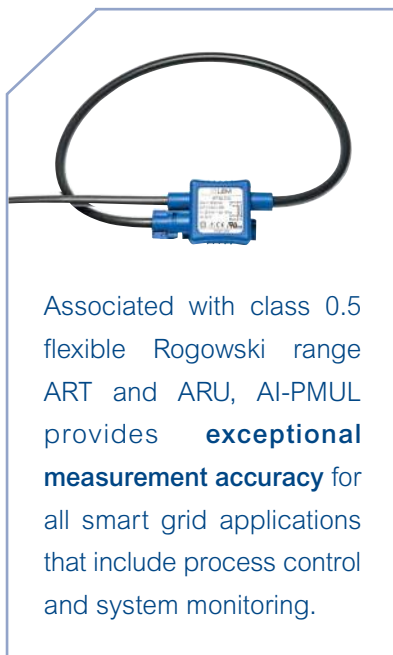
Current (True RMS measurement)	0-20 mA, 4-20 mA
Voltage (True RMS measurement)	0-5 V, 0-10 V
Voltage (Instantaneous value)	0-225 mVac, 0-333 mVac
Load impedance	Current output: $\leq 500 \Omega$ / Voltage output: $\geq 1 \text{ k}\Omega$
Linearity error	$\leq 0.1\%$

General specification

Supply voltage	24 Vdc (10-32 Vdc)
Current consumption	100 mA (24 Vdc)
Insulation test voltage	1500 V, 50 Hz, 1 min.
Protection type	IP20

Standards compliance

Safety	IEC 61010-1: 2010
EMC	IEC 61326-1: 2012



Associated with class 0.5 flexible Rogowski range ART and ARU, AI-PMUL provides **exceptional measurement accuracy** for all smart grid applications that include process control and system monitoring.

AI-PMUL

DESIGNED FOR MV & LV METERING AND MONITORING APPLICATION

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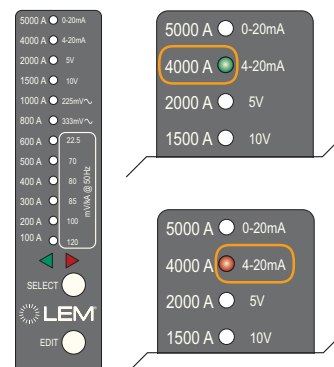
The new integrator AI-PMUL covers in one universal product all the ratings you could expect. The **simple configuration** and the clear status visible from the front fascia allows you to configure it with ease. Combined with our ART and ARU Rogowski coils, it offers a **universal metering and monitoring solution** up to 5000 A to answer to your immediate needs as well as your network future evolution.

General specification

Dimension	100 x 78 x 15 mm
Weight	58 g
Mounting	DIN Rail 35 mm
Ambient operating temperature	-25 °C to +70 °C
Ambient storage temperature	-40 °C to 85 °C
Wire connection	Push-in terminal
Humidity (non condensing)	5 % to 95 %
Altitude	< 2000 m

EASY CONFIGURATION

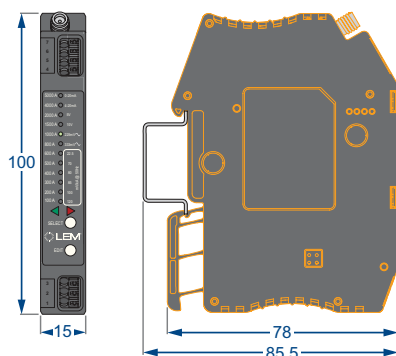
AI-PMUL extreme versatility is accessible through a simple, reliable and error free configuration system using ergonomic push button and visible bi-color led where green is for current range selection and red is for input sensitivity and output selection.



OPTIONS

For small current measurement and difficult condition, SMA coaxial connector is available as an input option.

Design for grid application, AI-PMUL, up to three modules can be stacked together with an optional connector to share a single power supply.



Dimension in mm



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