

# 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

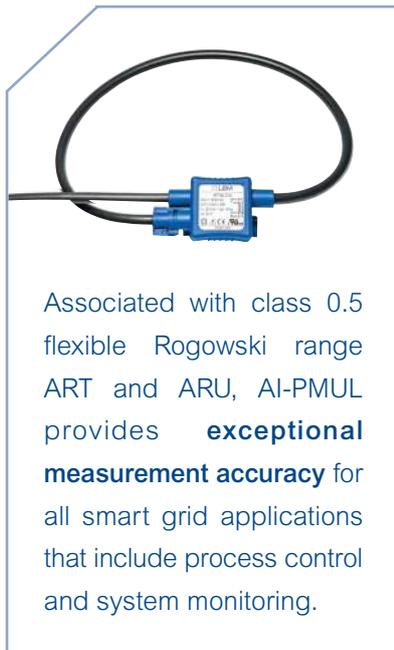
Current (True RMS measurement)	0-20 mA, 4-20 mA
Voltage (True RMS measurement)	0-5 V, 0-10 V
Voltage (Instantaneous value)	0-225 mVac, 0-333 mVac
Load impedance	Current output: $\leq 500 \Omega$ / Voltage output: $\geq 1 \text{ k}\Omega$
Linearity error	$\leq 0.1\%$

### 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

COMPLY WITH ART and ARU RANGE

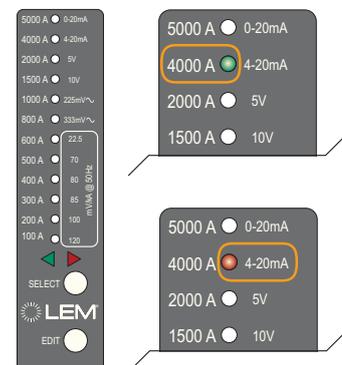
The new integrator AI-PMUL covers in one universal product all the ratings you could expect. The **simple configuration** and the clear status visible from the front fascia allows you to configure it with ease. Combined with our ART and ARU Rogowski coils, it offers a **universal metering and monitoring 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

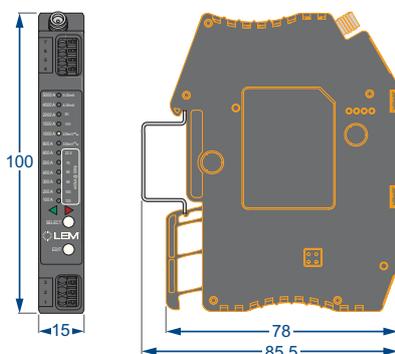
AI-PMUL extreme versatility is accessible through a simple, reliable and error free configuration system using ergonomic push button and visible bi-color led where green is for current range selection and red is for input sensitivity and output selection.



### 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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