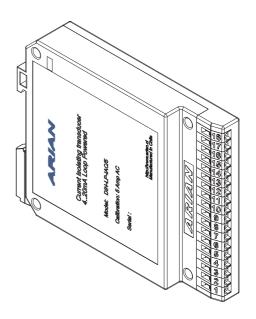


DIN-LP series Loop Powered 4... 20mA Isolating Transducers

- Isolates voltage and current signals for PLC input as loop powered 4...20 mA.
- Do not need any additional power supply.
- 5 years guarantee.



General description

The DIN-LP insolating transducers modules allow safe and reliable inputs for PLC's 4... 20 mA analog signals.

They do not require any additional power supply because the modules are powered by the 4... 20 mA output current loop, simplifying installation and wiring.

Input signals are voltages and currents coming from sensors or transducers (eg. load cells, current transformers). The output is a galvanically isolated 4... 20 mA loop proportional to the input.

Galvanic isolation eliminates the problems produced by plant ground potencial differences and reduces the ones produced by electromagnetic interference. The isolation provided by each module allows to use nonisolated 4... 20mA PLC input channels.

Other applications can be:

- Inflammable or explosive environment instrumentation.
- Thermocouple compensated cable saving in long distances.
- Generating floating ground for several 4...20mA instruments interconnect.
- Measure differential voltage (by example, load cell)
- PC analog signal input for laboratory use.

Technical specifications:

OUTPUT: Maximum operation voltage. 30 V

Minimum operation voltage. 3.6 V + 20 mA * RL

Isolation: 4000 V min.

Magnetic transformer based isolation, no optocoupler used.

Temperature stability: 25 ppm / °C max. Long term stability: 20 ppm / year max.

Note:

AC voltage and current modules are calibrated for RMS value of a senusoidal input, but the measurement is made by absolute value average. The input frequency range is 40-400Hz. and the maximum error is

0.5%.

CONSTRUCTION: Material: Fiberglass reinforced poliester; IP65

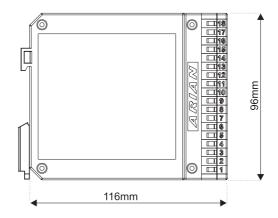
Total dimensions: 23 mm wide, 98 mm heigth, 116 mm deep.

Assembly Rail DIN
Weight: 100 grams.
Operation temperature: -10 ... 50 °C.

CE DIRECTIVES: 2004/108/EC (EMC) Electromagnetic compatibility directive

STANDARDS: EMC immunity: EN61326-1:2006 Industrial locations.

EMC emissions: EN61326-1:2006 Class A.



Models:

	High input range for 20mA output	Input impedance or current input.	Use with
DIN-LP-VAC DIN-LP-MVDC DIN-LP-VDC DIN-LP-VDC2	adjustable, 5 to 600Vac adjustable, 10 to 80mVdc adjustable, 5 to 600Vdc adjustable, 80mV to 5V dc	< 500uA >10Mohms < 500uA < 62uA	High voltage AC network Load cells, Ph sensors DC voltages
DIN-LP-IAC5 DIN-LP-420MA DIN-LP-50MV DIN-LP-60MV	fixed, 5 Amp. Ac fixed, 4-20mA fixed, 50mVdc fixed, 60mVdc	0.01 ohms 2.7ohms 4.3 Kohms 4.3 Kohms	eg. 1000A/5A current transformer 4-20ma to 4-20ma isolator 50mV current shunts 60mV current shunts

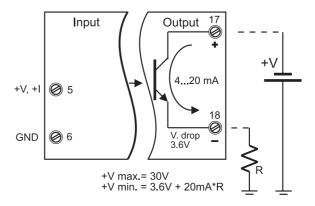
Ordering Code examples:

Specify factory calibration when ordering adjustable models, for example:

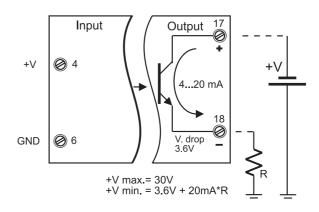
Part code	Calibration	
DIN-LP-VAC / 300V	0300Vac to 420mA	
DIN-LP-VDC / 120V	0120Vdc to 420mA	
DIN-LP-MVDC / 27mV	027mVdc to 420mA	
DIN-I P-IAC5	05 Amp Ac to 420mA	

Connections:

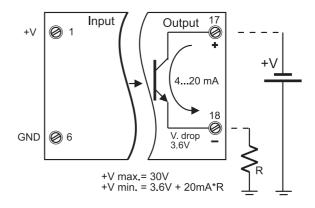
DIN-LP-MVDC DIN-LP-420MA DIN-LP-IAC5



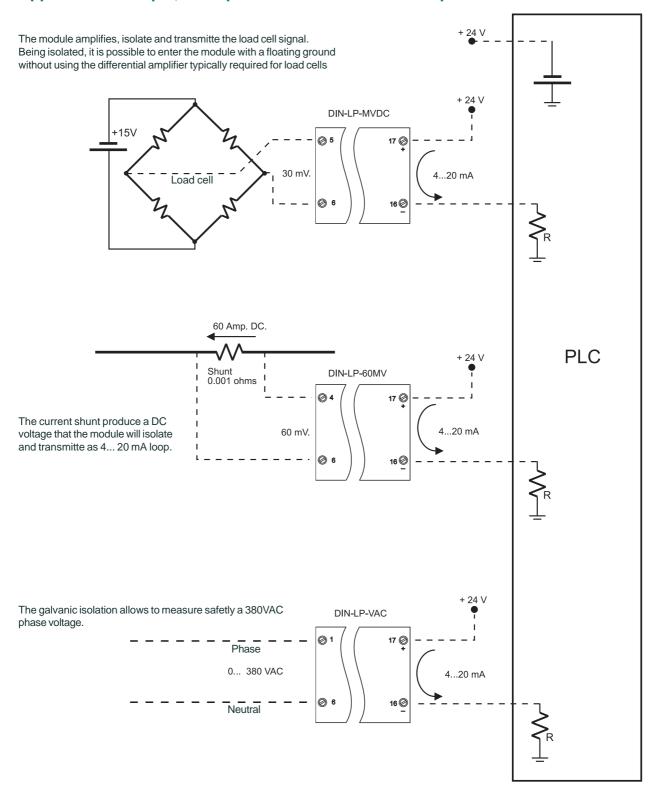
DIN-LP-50MV DIN-LP-60MV DIN-LP-VDC2



DIN-LP-VAC DIN-LP-VDC



Application example, multiple isolated 4.. 20mA PLC Inputs



More information:

ARIAN

El Comendador 2340, Providencia, Santiago, Chile Phone/Fax 56-2-24218333 arian@arian.cl , www.arian.cl