ADP15 Voltage and Current Indicator

TYPE: ADP15

Features

- Microprocessor based design
- Full calibration & programming via keypad & communications import
- Isolated inputs & outputs
- AC & DC powering
- 3 year guarantee
- PID Control
- Isolated Analogue Outputs
- Fail safe alarm/relay outputs
- 4¹/₂ digit high resolution
- Voltages 200mV to 200V
- Current 4-20mA
- Peak hold

Typical Applications

- · Remote display of process variables
- PID control for pressure/load controlled systems
- Crane load monitoring and protection
- Can be used with any load cell or pressure transducer from LCM Systems, with built in amplifier

Description

The ADP15 range of products is very versatile, accepting a wide range of different signal input types and ranges.

The ADP15 flexibility makes it the first choice for many control system designers. Supporting products like PC software, printers, and sensors, means most customers can deal with a single supplier.

Outputs include:-

Analogue voltage and current, Industry standard digital communications, Relays, Printer Drive.

Options and Accessories include:-

Panel mounting, DIN rail mounting, Power supplies for 110/230VAC or 9-32VDC, Communications for Printer, PLC or PC

Software Options:-

Power Factor, Printers DP data only and TDP for real time/date.

The ADP15 can be supplied as part of a system, including many of the wide range of LCM Systems sensors and instrumentation. Please contact our technical department to discuss your application.

Specification & Order Codes

General Specifications

Accuracy	Typical ±0.08% of output, ± 0.08%FSD
Resolution	As display resolution, max 15 bits
Calibration	By 15-turn pre sets for gain and offset
Inversion	By keypad value
Isolation	±130V RMS or DC max to analogue input or to any other port
Ranging	Fully keypad scalable over desired display range
PID	Power level, when selected = 12 bit resolution output

Display

7 segment 4.5 digit display (max display ±19999), 10mm high digits for relay status, 1 for program and hold in

Front Panel Kevs/Buttons

4 membrane panel keys, offering the	following functionality, when configuring:-		
Scroll key to view/update parameter.	0		
Digit select key			
Digit increment key			
Reset key	R		
The keys can be configured in norma	I operation, to offer the following functionality		
Keypad can be disabled when in normal operation, if required.			

Auto-Zero display

Dhyniool

Physical	
Case Dimensions	DIN 72 x 72 x 163mm (excluding mounting terminal)
Case Material	Grey Noryl, flame retardant
Weight	750 grams
Terminals	2.5mm, saddle field terminals
Accessibility	Electronics removable through front panel leaving field wiring and case in situ.
Data Retention/Protection	

Retention:	10 years for set up values, minimum of 100,000 write cycle			
	Watchdog timer giving repeat auto resets. Impending power detection and hold off. Keypad security and time out.			



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CE & Enviro	onmental				
Storage tempera	ature	-20 to +70°C			
Operating tempe		-10 to 50°C			
Relative humidit		95% maximum n	on-condensing		
Low Voltage Dire	ective	2006/95/EC			
EMC Directive		2004/108/EC			
Input Optior	าร				
Input Type	Input Range	Order Code	Input Type	Input Range	Order Code
DC Voltage		DCV2	DC Voltage	+/-20V	DCV4
DC Voltage		DCV5			
DC Current	3.5mA to 20.5mA	DCA2E			
DC Analogu	le Outputs				
Output Range	Order Code		Output Range	Order Code	
0 to 10V	V4		4-20mA	A3	
Maximum Curre	nt out 50mA		Maximum Voltage	out 20V	
Communica	tions Port				
Port Type	Order	Code			
RS485/232	COM				
RS485 -For up to 32 instruments on 1 bus, 4 wire.					
RS232 -For printer or direct connection to 1 device.					
Port Specificati	ions				
Baud rates			00, 9600 (19200 MA		
Electrical isolation	on ±130V	RMS or DC max to	o analogue input or a	ny other port	

 Formats
 MODBUS RTU, MANTRABUS and printer output formats

 Cable Length
 1km (depending on baud rate)

 The printer option utilises the communications board RS232 output. The output drive for a printer offers a Time/Date stamp and log

The printer option utilises the communications board RS232 output. The output drive for a printer offers a Time/Date stamp and log number together with the label of units of measure, or the output drive for a log number only, together with label of units of measure. A wide range of printers may be connected.

In all bi-directional communications option, all display data can be accessed via the communications port along with relay and EEPROM status. All user configurable data can be changed including EEPROM enable/disable and relay reset (address code cannot be changed).

Alarm/Control Outputs

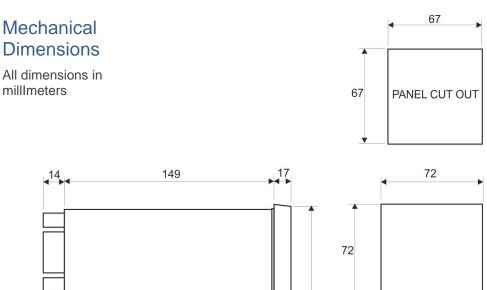
Relay Output Type	Order Code
One Relay (DPCO)	R2
Two Relays (SPCO)	R3
Relay Output Specifications	
Relays	230V at 5A AC resistive
Isolation	±130V RMS
Keypad	Can be used to reset latch, when relays configured for latching
Power Supplies	
Dowor Supply Dongo	Order Code

Power Supply Range 220V-230V AC 50-60Hz 10W 110V-120V AC 50-60Hz 10W 9-32V DC 10W isolated

Order Code 240 110 12/24

Mounting Options

Mounting Type	Order Code	Mounting Type	Order Code
Panel Mounting	Р	DIN Rail Mounting	D





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Due to continual product development, LCM Systems Ltd. reserves the right to alter product specifications without prior notice.

Issue date: 17/11/2011

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