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Indicator-controler ADW15



Indicator-controler ADW15 Producator: LCM Systems ADW15 Strain Gauge Input Digital Indicator and Controller

Descriere

ADW15 Strain Gauge Input Digital Indicator and Controller

Features :

- Suitable for full bridge sensor with a sensitivity of ±0.5 to ±200mV/V
- Fully programmable via keypad & communications port
- 4½ digit display
- 10V @ 150mA excitation with sense facility
- Isolated inputs and outputs
- Programmable in flight compensation
- Auto calibration
- High noise immunity
- Peak hold
- Auto zero (tare)

The ADW15 range of products is very versatile offering many software and hardware variants, designed to meet specific application areas, whether these be weighing or force measurement.

These expanded configurations enable systems to be simplified, by using a single indicator, where otherwise it may have been necessary to use several instruments or even a PC with software.

The ADW15's 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.

Output options include:-

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

Options and Accessories include:-

A fast (peak & trough) 10mS input version (FPT), Panel mounting or DIN rail mounting, Power Supplies for 115/230 V AC or 9-32V DC, Communications outputs for printer, PLC or PC.

The ADW15 can be supplied and calibrated with any of LCM Systems compatible sensors, and can be supplied on it's own or as part of a more complex system. Please contact LCM Systems technical department to discuss your application requirements.

Specification :

DC Analogue Outputs	Details
0 to 10V	V04
4-20mA	A03

DC Analogue Outputs

Details

Order code

Other Information	
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

Other Information

Communications Port	Details	Order code
RS485/232	RS485 - For up to 32 instruments on 1 bus, 4 wire RS232 - printer or direct connection to 1 device, 3 wire	COM 1

Communications Port

Details

Order code

Other Information	
Baud rates	300, 600, 1200, 2400, 4800, 9600 (19200 MANTRABUS only)
Electrical isolation	±130V RMS or DC max to analogue input or any 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. With the output drive for a printer offering a Time/Date stamp and log number together with the label of units of measure, or With the output drive for a log number only, together with label of units of measure. A wide range of printer may be connected.	

Other Information

Alarm/Control Outputs	Details	Order code
SPCO	1 relay on SP1	R01
SPCO	2 relays on SP1& 2	R03

Alarm/Control Outputs

Details

Order code

Other Information	
Relays	230V at 5A AC resistive
Isolation	±130V RMS
Keypad	Inversion, Delay Times, PID values and Time Proportioning

Other Information

Power Supplies	Details
240	220V-230V AC 50-60Hz 10W
110	110V-120V AC 50-60Hz 10W
12 &24V	9-32V DC 10W isolated

Power Supplies

Details

Communication Port CP Operation
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).

Communication Port CP Operation

Other Options & Accessories
20mA PC Communications Interface (IF25)
VisualLink PC SCADA Software

Other Options & Accessories

Base ADP15	
Displays	7 segment LED 4.5 digit 10mm.3 x 3mm LED's 2 for relay status, 1 for program and hold indication.

Base ADP15

Controls	
4 membrane panel keys	Scroll key to view/update parameter.
	Digit select key.
	Digit increment key.
	Reset key.
	Keypad disable by internal links behind front panel.
	Hold function by digit select key when in input mode.

Controls

Data Retention/Protection	
Retention	10 years for set up values, minimum of 100,000 write cycle
	Protection of data and function(s)Watchdog timer giving repeat auto resets.
	Impending power detection and hold off.

	Keypad security and time out.

Data Retention/Protection

CE & Environmental	
Storage temperature	-20 to +70ºC
Operating temperature	-10 to 50°C
Relative humidity	95% maximum non condensing
Safety/Low Voltage Directive	2006/95/EC
EMC Directive	2004/108/EC

CE & Environmental

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	All electronics removable through front panel leaving field wiring and case in situ.

Physical

Caracteristici tehnice

Caracteristică	Detalii
Mounting Type	Order code
Front Panel	P
Din Rail Adaptor	D