

Versatile Indicator/Controller

Features

- Input Types for all Industry Standard Sensors
- High Resolution
- Very High Reliability
- Small Panel Space
- Easy Access to Electronics via front of panel
- Measurement in Any Engineering Units
- Full calibration & programming via keypad or comms import
- Peak hold
- Isolated inputs & outputs
- PID control
- Analogue outputs to all industry standards
- Relays - High current
- **Printer Drive**
- Pre calibrated inputs



- 10 year data protection
- 3 year guarantee
- DC power options
- Communications RS232, RS485/422

Specifications

Inputs

Input type Input ranges available

DC Voltage +/-20mV, +/-200mV, +/-2V,+/-20V, +/-200V +/-2mA, 4-20mA, +/-20mA, +/-200mA DC Current AC Voltage 0-200mV, 0-2V, 0-20V, 0-200V

AC Current 0-1A

Temperature Platinum Pt100, Thermocouples K, J, R, S, T, B, N, E

Resistive bridge settable +/-0.5 to +/-200mV/V, Excitation 10Vdc Strain Gauge

Potentiometer Any value in the range 100R to 10K

AC excitation with signal selectable 20mV to 10V full range LVDT Pulse Speed, rate or total, 30 to 200,000rpm, 0.3u Secs to 200 Secs.

Angle Quadrature shaft encoder

Dual DC 2 inputs of 4-20mA or 0-10V allowing AxB, A-B, A+B, A/B, B=set point

DC Analogue Outputs

Order Code	Range	Order Code	Range
V1	0 to 1V	A1	0 to 1mA
V2	0 to 5V	A2	0 to 20mA
V3	1 to 5V	A3	4 to 20mA
V4	0 to 10V	A4	10 to 50mA
V6	-10 to +10V	A5	0 to 5mA
Max Current out 50mA Max Voltage out 20V			

Max Current out 50mA

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

Inversion, By keypad value

Communication Port CP Operation

All ADP15 display data can be accessed via the communications port along with relay, PID power and EEPROM status. All ADP15 user configurable data can be changed including EEPROM enable/disable and relay reset (ADP15 address code cannot be changed). **Communications Port**

Order Code

COM1 RS232 For printer or direct connection to 1 device, 3 wire COM1 RS485/422 For up to 32 instruments on 1 bus, 4 wire 20mA For up to 25 instruments per interface, 4 wire

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, MANTRABUS and printer output formats

Specifications

Alarm/Control Outputs

Order Code	Type	Function
R1	SPCO	1 relay on SP1
R2	DPCO	1 relay on SP1
R3	SPCO	2 relays on SP1& 2
R4	SPCO	1 relay on SP2
R5	DPCO	1 relay on SP2

Relays, 230V at 5A AC resistive

Isolation, ±130V RMS

Keypad Programmable options: Hysteresis, Latching, Output Inversion, Delay Times, PID values and Time Proportioning.

16 relay option can be supplied on external DIN rail modules (10A SPCO). Available for DC, AC, Temperature, Strain Gauge & Potentiometer inputs, ask for ADP15-SP16

Power Supplies

Order Code Type

240 220V-230V AC 50-60Hz 10W 110 110V-120V AC 50-60Hz 10W 12/24 9-32V DC 10W isolated

Base ADP15

Input Filter Programmable to average up to 64 display updates.

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

Update Rate Up to 10 updates per second

Controls

4 membrane panel keys with tactile feedback. 1 scroll key to view/update parameter. 1 digit select key. 1 digit increment key. 1 reset key. Keypad disable by internal links behind front panel. Hold function by digit select key when in input mode.

Data Retention/Protection

Retention: 10 years for set up values, minimum of 100,000 write cycles.

Protection of data Watchdog timer giving repeat auto resets. Impending power detection and hold off. Keypad security and time out.

and function(s):

CE & Environmental

Storage temperature -20 to +70°C European EMC Directive 2004/108/EC Operating temperature -10 to 50°C Low Voltage Directive 2006/95/EC

Relative humidity 95% maximum non condensing

Other Options & Accessories

Panel Mounting or Din Rail Mounting VisualLink PC SCADA Software

One pass calibration Analogue Totaliser (Integrator)

20mA PC Communications Interface (IF25)

Physical

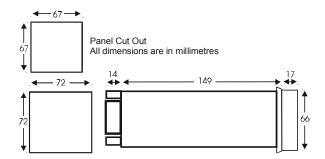
Case Dimensions DIN 72 x 72 x 163mm (excluding mounting terminal)

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.









[Fig. In the interest of continued product development, Mantracourt Electronics Limited reserves the right to alter product specifications without prior notice.