

Panel Mount Weighing Indicator/Controller

Features

- Variable gain strain gauge sensitivity from 0.5 to 200mV/V
- Fully programmable via keypad & comms port
- 4.5 digit high resolution
- Excitation compensation
- 10V @ 150mA excitation to drive up to 4/350 ohm Strain Gauges
- Standard strain gauge input 100mS sampling rate
- Isolated inputs & outputs
- Programmable in flight compensation
- Auto calibration
- High noise immunity
- Peak hold
- Auto zero (Tare)
- Isolated inputs & outputs



Outputs

- Analogue Industry standard
- Relays

- Communications
- Printer Drive

Options & Accessories

A Fast (Peak & Trough) 10mS input version (FPT) Panel Mounting or Din Rail Mounting Supplies for 115/230 VAC or 9-32V DC Communications Outputs for Printer, PLC or PC IF25 Interface module connects up to 25 ADW15's to one RS232 port

Printers DP data only and TDP for real time/date

Specifications

In	u	u	u.	3

Calibration Automatic digital by use of keypad and 1 (or 2) known

weights. Manual calibration can also be selected

Auto Tare

By pressing keys and then display will zero. Auto tare value can also be viewed and manually changed if required.

Auto tare value is retained on powerdown.

Sensitivity Preset via DIL switches between 0.5 to 200mV/V

Excitation 10V DC nominal, 150mA maximum Compensation By ± sense wires to compensate fo

By \pm sense wires to compensate for cable, connection

volt drops and any variation in 10V supply 90 days ± 0.08% of reading ± 0.05% of FS typical

0.002%°C typical @ 2.5mV/V

DC Analogue Outputs

Order Code Range Order Code Range V02 0 to 5V A01 0 to 1mA V04 0 to 10V A02 0 to 20mA -10 to +10V A03 4 to 20mA V06

Max Current out 50mA

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

 $\begin{array}{ccc} & \text{Max Current out 50mA} \\ 0.08\% \text{ of output, } \pm 0.08\% \text{FSD} & \text{Isolation} & \pm 130 \text{V RMS or DC max to analogue input or to any other port} \end{array}$

Ranging Fully keypad scalable over desired display range PID Power level, when selected = 12 bit resolution output

Inversion By keypad value

Communications Port CP Operation

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

Accuracy

Drift

Communications Port

Order Code Type Details

COM1 RS485/422 For up to 32 instruments on 1 bus, 4 wire S01 20mA For up to 25 instruments per interface, 4 wire

Cable length, 1km (depending on baud rate)

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

Alarm/Control Outputs

 Order Code
 Type
 Function

 R01
 SPCO
 1 relay on SP1

 R02
 DPCO
 1 relay on SP1

 R03
 SPCO
 2 relays on SP1& 2

Relays, 230V at 5A AC resistive

Isolation, ±130V RMS

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

Power Supplies

Order Code Type

W240 220V-230V AC 50-60Hz 10W W110 110V-120V AC 50-60Hz 10W W12/24 9-32V DC 10W isolated

Base ADW15

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

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 and function(s): Watchdog timer giving repeat auto resets. Impending power detection and hold off. Keypad security and time out.

CE & Environmental

Storage temperature $-20 \text{ to } +70 ^{\circ}\text{C}$ European EMC Directive 2004/108/EC Operating temperature $-10 \text{ to } 50 ^{\circ}\text{C}$ European EMC Directive 2006/95/EC

Relative humidity 95% maximum non condensing

Physical

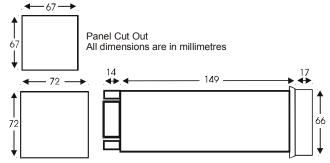
Case Dimensions DIN 72 x 72 x 163mm (excluding mounting terminal)

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.









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