ME mantracourt

ADW15

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

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

- Communications
- Brinton Drivo
- Printer Drive

IF25 Interface module connects up to 25 ADW15's to one RS232 port Printers DP data only and TDP for real time/date

Specifications

Inputs

 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 ℝ display will zero. Auto tare value can also be viewed and manually changed if required. Auto tare value is retained on powerdown.

Sensitivity Excitation Compensation Accuracy

Drift

Preset via DIL switches between 0.5 to 200mV/V 10V DC nominal, 150mA maximum By ± 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		
V06	-10 to +10V	A03	4 to 20mA		
Max Current out 50mA			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	-			

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).

Communications Fort		
Order Code	Туре	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 (depend	ding on baud rate)	
Baud rates 300 600 1200	2400 4800 9600 (1920)	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	Туре	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 r	esistive	

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

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

Displays 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: Protection of data and function(s):	10 years for set up values, minimum of 100,000 write cycles. Watchdog timer giving repeat auto resets. Impending power detection and hold off. Keypad security and time out.				
CE & Environmental					
Storage temperature Operating temperature Relative humidity	-20 to +70°C -10 to 50°C 95% maximum non condensing	European EMC Directive Low Voltage Directive	2004/108/EC 2006/95/EC		
Physical					
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. Image: Panel Cut Out All dimensions are in millimetres Image: Panel Cut Out 14 Image: Panel Cut Out 14 Image: Panel Cut Out 16 Image: Panel Cut Out <t< td=""></t<>					







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

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