SUNSTAR传感与控制 http://www.sensor-ic.com/ TEL:0755-83376549 FAX:0755-83376182 E-MAIL:szss20@163.com

# **m**Emantracourt

SMW

# Wall Mount Versatile Indicator/Controller

## Features

- Large LCD Display
- Wide Range of Input Options
- Digital & Communications Output Options
- Various 'Plug in' Options
- Wide Range of Power Supplies
- Isolated Inputs and Outputs
- 4-20mA & 0-10V Outputs
- High accuracy
- Low drift
- One Pass Digital Calibration
- 10 years data retention
- Digital programming, linearisation & display

The surface mounted strain gauge display is housed in a light

grey ABS case, sealed to IP65 with external dimensions of 200

The unit comprises a 8 digit 12.7mm LCD display, on an

intelligent base unit with user configurable 4-20mA and 0-

'Plug-in' module positions are available for power supply,

The relay module provides for two set points, together with In

Flight compensation. Relays can be inverted and latched, all

of these facilities being set in engineering terms. Both relay

A facility is available to alter the default display for Gross or

Programmed in engineering units, hysteresis and latching

To read any value, change set points or any other parameter :

(LR1)

(LC1)

(LC3)

RTU

MANTRABUS, ASCII or MODBUS

and analogue outputs have a high level of isolation.

settings for control or alarm purposes.

Choice of mountings

10volt analogue outputs.

relay and communications options.

'Plug in' Options includeRelay Set Points

Communications

RS232/RS485

Format

20mA Current loop

#### Introduction

x 120 x 75mm.

Net values.

3 year guarantee

The optional communications provide for 20mA noise immune

current loop, RS232 and multi drop RS485 connections to a PC, PLC or mainframe. This allows for the input variable to be taken and the set up parameters changed.

Communications protocol options include ASCII, MODBUS RTU and MANTRABUS.

Additionally, multiple 20mA units can be connected via an IF25 current loop to RS232 interface which when included, allows for up to 250 units to be connected.

The RS232 port is also available for a Time/Date or Data only printer to be connected, to log all the desired activities Baud speeds of 300 to 19200 are programmable. Power supplies options of 115 or 230VAC and 9 to 32VDC are available.

#### Printers

Activated by a function key or contact will allow print, the current live value, with header message, engineering units, auto incrementing batch number and real time if required.

#### Options

9-32V DC power supply (LS3) Remote display module LCD display back lighting DIN rail mounting for the Motherboard Fast Analogue Output Module High Speed Strain Gauge input.

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## Specifications

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Inputs			
Strain Gauge Input Compensation Load cell sensitivity Initial offset Zero Temperature Coefficient Span Temperature Coefficient Excitation Repeatability Display Update Rate Display Average Measurement Resolution	by $\pm$ sense wires for cable and safety is preset via DIL switches to 0.5, 0.8,	1.0 1.25, 1.5, 2.0, 2.5, 3.5, 5, 10, 20, 5 which is cancelled during auto calibrat V sensitivity selected een 0.1 and 25.5 seconds	50, 100 or 200mV/V
Analog Output			
Type Drive Accuracy Resolution Isolation Fast Analog Output	<ul> <li>4-20mA and 0-10V</li> <li>4-20mA up to 1Kohm and 0-10 volts up to 2mA</li> <li>4-20mA + 0.15% of range, typical. 0-10V ±2% before calibration as for display up to 13 bits/4.5 digits. Settling time 350mS to within 1% of step change.</li> <li>±130V RMS or DC max to analogue input or any other port For use with the UAFLC (FAST INPUT OPTION)</li> </ul>		
Power Supplies			
Order Code LS1 LS3	Type 110V-120V AC or 220/230V AC 50-60Hz 10W 9-32V DC 10W isolated		
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
Other Options & Accessories			
2 Set Points Communications Port 20mA loop R\$485 R\$232 Printer Operation Baud Rates DIN Rail Mounting DC Powering Remote Mounting Back Lighting	For data transfer or print via :- Enabling up to 254 units to be multi d Enabling up to 25 units to be multi dr For 1 to 1 connection or standard prin By front panel function key	••	s)





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