

# **CSW 20 INDICATOR SPECIFICATION SHEET**



#### PRODUCT SPECIFICATION

Width: 222mm Height: 183mm Depth: 94mm

Internal resolution:

2.5kg (shipping 2.9kg) Weight:

4 LEDS (Motion/Zero/Net/Gross) **Annunciators:** Front Panel: Membrane with tactile metal domes,

Beep response, 5 button operation

24 bit ADC (1:16,777,215) 7 Red LED digits 20mm Display:

Input Signal Range:  $-6.5 \rightarrow 6.5 \text{ mV/V}$ 

230/115Vac (Selectable) 12-28VdC (according to specification) Operating Voltage:

**Power Consumption:** 

10,000 (trade) | 500,000 (x 10 test mode) (non trade) Maximum Display Resolution (trade):

100% of Input Signal Range Zero Offset Range:

ADC Conversion Rate(Hz): 50 (25/100\*)

Linearity error (%FS):  $< \pm 0.0015\%$  (+ digital correction)

Differential non linearity: < 0.5 LSB Span temperature coefficient: 1.6 ppm/°C Zero temperature coefficient:  $< 0.005 \mu V/oC$ 

Common Mode Rejection (@500Hz): 120dB 120dB Power Supply Rejection (@500Hz):

EC Approvals OIML Class III + IIII s: Certificate: UK: UK3180, EU: 0200-NAWI-08407

### **KEY FEATURES**

- Bright, easy to read, large LED display
- Stainless steel enclosure with swivel bracket for wall/desk mount
- Connections via 5mm press clamps
- Multi point linearity adjustment
- Configuration via front panel or serial communication
- Two serial ports, printer port can be used for remote display
- Memory tares, semi automatic tare and set zero functions
- 3 outputs, 2 inputs as standard
- Trade Approved for any R60 loadcells

**OPTIONS** 

Flash Electronic Tally Record (Alibi device)

Integrated RF Modem

ModBus Communications

24V DC powered version

- Real time clock as standard
- Versatile print formatting
- PLU's recalling A/N text, set points, part weights and totals
- Multi-drop communications
- Sophisticated fill control with fast cut off and predictive software
- Variety of set point operating modes.
- Accommodates extremes of dead load and signal
- Superb digital weight filtering with fast settle times
- x10 resolution test mode
- Firmware upgrades via serial port

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# **ENVIRONMENT:**

IP Rating: IP66

**Operating Temperature Range:** -10 to +40°C **Storage Temperature Range:** -10 to +70°C

Case: 304 Stainless Steel EMC Immunity/Emissions: EN45501, EN50082-2

Cable Glands: 5 off PG11

# **TRANSDUCER INPUT:**

Transducer type (4 or 6 wire): Resistive, full bridge

**Transducer input resistance:** min  $43\Omega$  (up to  $8 \times 350\Omega$  cells)

**Excitation voltage:** 5 (nominal)vDC

**Minimum signal requirement:**  $1 \mu V/e \text{ (approved)} \mid 0.1 \mu V/e \text{ (non approved)}$ 

**Input impedance:**  $\geq$  20 (sense and signal) M $\Omega$ 

## **SERIAL COMMUNICATION**

**Communication Ports:** 1. Comms RS232 or RS485 | 2. Printer Port RS232 (TX/Busy)

**Baud Rate:** 2400, 4800, 9600, 19200, 38400 bits/sec

**Protocol:** 7/8 data bits, odd/even/no parity,1/2 stop bits

Maximum continuous data rate:50Hz (test mode)Communication protocol:Ascii or ModBus\*

#### 1/0

**Analogue output\* 0-10V or 4-20ma\*:** 15 bit (adjustable range)

Max drive load for 4-20mA:  $500\Omega$  (active)/1200 $\Omega$  (passive)

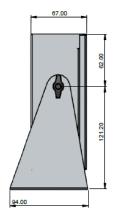
Opto coupled inputs. <6V off; >10 -30V on (supply rail on board)

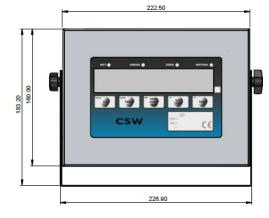
Darlington type transistors. Max OFF voltage 27V;

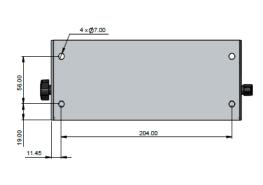
Max ON current 60mA. Leakage < 0.1ma Switched + or -

Inputs 2 (4\*):

Outputs 3 (5\*):







<sup>\*</sup> According to specification