



# CSW 20 INDICATOR SPECIFICATION SHEET

## PRODUCT SPECIFICATION

**Width:** 222mm  
**Height:** 183mm  
**Depth:** 94mm  
**Weight:** 2.5kg (shipping 2.9kg)

**Annunciators:** 4 LEDs (Motion/Zero/Net/Gross)  
**Front Panel:** Membrane with tactile metal domes,  
Beep response, 5 button operation

**Internal resolution:** 24 bit ADC (1:16,777,215)

**Display:** 7 Red LED digits 20mm

**Input Signal Range:** -6.5 → 6.5 mV/V

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

**Power Consumption:** 5 - 10W

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

**Zero Offset Range:** 100% of Input Signal Range

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

**Linearity error (%FS):** < ± 0.0015% (+ digital correction)

**Differential non linearity:** < 0.5 LSB

**Span temperature coefficient:** 1.6 ppm/°C

**Zero temperature coefficient:** < 0.005 µV/oC

**Common Mode Rejection (@500Hz):** 120dB

**Power Supply Rejection (@500Hz):** 120dB

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

## OPTIONS

15 bit Analogue Output 4-20mA or 0-10V  
Flash Electronic Tally Record (Alibi device)  
Integrated RF Modem  
ModBus Communications  
24V DC powered version  
Additional 2 inputs, 2 outputs

## 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
- 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 43Ω (up to 8 x 350Ω cells)              |
| Excitation voltage:            | 5 (nominal)VDC                              |
| Minimum signal requirement:    | 1 μV/e (approved)   0.1 μV/e (non approved) |
| Input impedance:               | ≥ 20 (sense and signal) MΩ                  |

## 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*                                          |

## I/O

|                                    |                                                                                                          |
|------------------------------------|----------------------------------------------------------------------------------------------------------|
| Analogue output* 0-10V or 4-20ma*: | 15 bit (adjustable range)<br>Max drive load for 4-20mA: 500Ω (active)/1200Ω (passive)                    |
| Inputs 2 (4*):                     | Opto coupled inputs. <6V off; >10 -30V on (supply rail on board)                                         |
| Outputs 3 (5*):                    | Darlington type transistors. Max OFF voltage 27V;<br>Max ON current 60mA. Leakage <0.1ma Switched + or - |

\* According to specification

