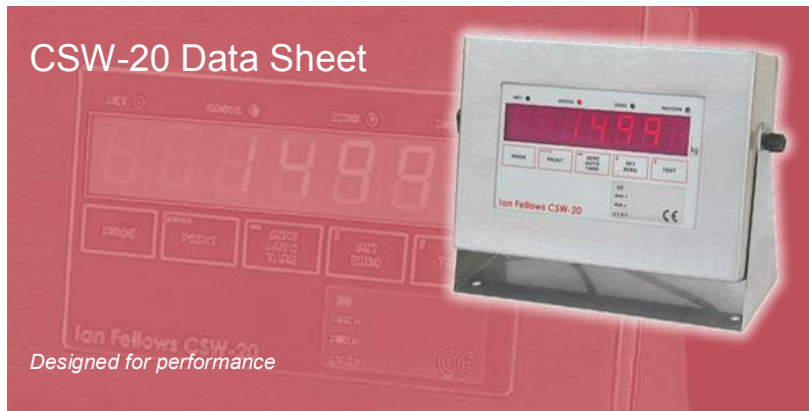


# Wessex Scale Co

Ian Fellows  
Limited

## CSW-20 Data Sheet



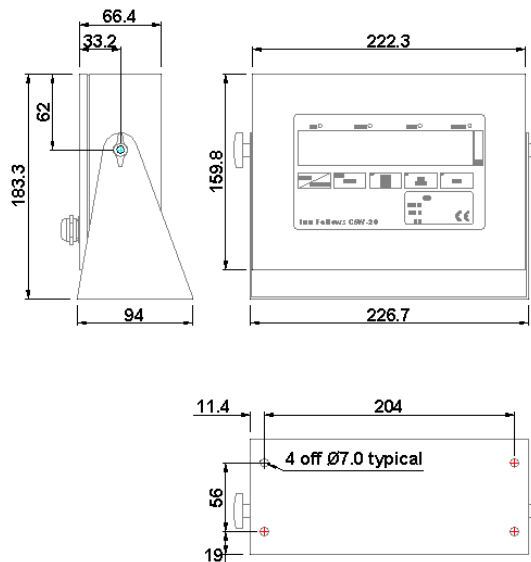
### Features

- High Quality – Low Cost.
- 7 Digit, bright, easy to read, large LED display.
- Stainless steel enclosure with swivel bracket for wall/desk mount.
- Connections via 5mm press clamps.
- Trade Approved for any R60 loadcells.
- High resolution weighing performance.
- Multi point linearity adjustment.
- Accommodates extremes of dead load and signal.
- Superb digital weight filtering with fast settle times.
- x10 resolution test mode.
- Configuration via front panel or serial communication.
- Firmware upgrades via serial port.
- 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.
- Real time clock as standard.
- Versatile print formatting.
- PLU's recalling A/N text, setpoints, part weights and totals.
- Multi-drop communications.
- Sophisticated fill control with fast cut off and predictive software.
- Variety of setpoint operating modes.
- Many advanced software features.

### 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.

### CSW-20 Dimensions



# Specifications

|   |  |                               |  |
|---|--|-------------------------------|--|
| <b>General Specifications</b>             | Display                                  | mm                            | 7 Red LED digits 20mm  |
|   | Front Panel                              |                               | Membrane with tactile metal domes, Beep response, 5 button operation.  |
|   | Annunciators                             |                               | 4 LEDs (Motion/Zero/Net/Gross)   |
|   | Internal Resolution,                     | counts                        | 24 bit ADC (1:16,777,215)  |
|   | Maximum Display Resolution (trade)       | divisions                     | 10,000   |
|   | Maximum Display Resolution (non-trade)   | divisions                     | 500,000 (x10 test mode)  |
|   | EC Approvals OIML Class III + IIII s     | certificate                   | NWML UK2677  |
|   | Input Signal Range                       | mV/V                          | -6.5 → 6.5   |
|   | 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             | ppm/°C                        | 1.6  |
|   | Zero temperature coefficient             | µV/°C                         | < 0.005  |
|   | Power consumption (typical)              | W                             | 5-10   |
|   | Common Mode Rejection (@500Hz)           | dB                            | 120  |
|   | Power Supply Rejection (@500Hz)          | dB                            | 120  |
|   | Operating voltage                        | V                             | 230/115Vac (Selectable)<br>12-28Vdc *  |
|   | Weight                                   | kg                            | 2.5kg (shipping 2.9kg)   |
|   | <b>Transducer Input Specifications</b>   | Transducer type (4 or 6 wire) |  |
| Transducer input resistance               |  | Ω                             | min 43Ω (up to 8 x 350Ω cells)   |
| Excitation voltage                        |  | Vdc                           | 5 (nominal)  |
| Minimum signal requirement (approved)     |  | µV/e.                         | 1  |
| Minimum signal requirement (non-approved) |  | µV/e                          | 0.1  |
| Input impedance                           |  | MΩ                            | ≥ 20 (sense and signal)  |
| <b>Serial Communication</b>               | Communication Ports                      |                               | 1.Comms RS232 or RS485<br>2.Printer port RS232 (TX/Busy)   |
|   | Baud rate                                | bits/sec                      | 2400, 4800, 9600, 19200, 38400   |
|   | Protocol                                 |                               | 7/8 data bits, odd/even/no parity,<br>1/2 stop bits  |
|   | Maximum continuous data rate (test mode) | Hz                            | 50   |
|   | Communication protocol                   |                               | Ascii or ModBus*   |
| <b>Environment</b>                        | Operating Temperature                    | °C                            | -10 → +40  |
|   | Storage Temperature                      | °C                            | -10 → +70  |
|   | EMC Immunity/Emissions                   |                               | EN45501, EN50082-2   |
|   | Sealing                                  |                               | IP66   |
|   | Case                                     |                               | Grained 304 Stainless Steel<br>Swivel Stand (bench or wall mount)  |
|   | Cable Glands                             |                               | 5 off PG11   |
| <b>I/O</b>                                | Analogue output* 0-10V or 4-20ma*        |                               | 15 bit (adjustable range)<br>Max drive load for 4-20mA:<br>500Ω (active)/1200Ω (passive)                     |
|   | Inputs                                   | 2 (4*)                        | Opto coupled inputs<br><6V off; >10 -30V on<br>(Supply rail on board)  |
|   | Outputs                                  | 3 (5*)                        | Darlington type transistors<br>Max OFF voltage 27V;<br>Max ON current 60mA<br>Leakage <0.1ma Switched + or - |

\* According to specification



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