

CSW INDICATOR

For Ardous Environments



1 Summary

The MARCO CSW 20 Indicator delivers reliable, high-accuracy weighing performance with a tough IP66 stainless steel enclosure, a bright LED display, and advanced digital filtering.

Designed for packhouses, factories, and industrial applications, it offers seamless connectivity, flexible installation, and full trade approval for R60 load cells.

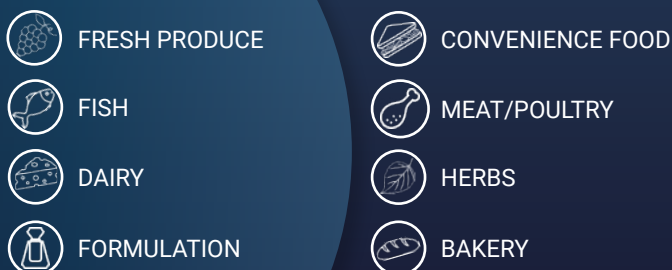
2 Product Specifications

Model:	CSW 20 Indicator
Dimensions (DxWxH):	66.5mm x 225mm x 160mm
Weight:	2.5kg
Enclosure:	304 Stainless Steel
Annunciators:	4 LEDS (Motion/Zero/Net/Gross)
Internal resolution:	24 bit ADC (1:16,777,215)
Display:	7 Red LED digits 14mm
Input Signal Range:	-6.5 > 6.5 mV/V
Maximum Display Resolution:	10,000 (trade)
	500,000 (x10 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
Cable Glands:	5 off PG11

3 Key Features & Benefits

Features	
DIN Standard, panel mount enclosure	Configuration via front panel or serial communication
Two part connectors for quick replacement	Two serial ports, printer port can be used for remote display
Multi point linearity adjustment	Memory tares, semi automatic tare and set zero functions
3 outputs, 2 inputs as standard	Screwless, Push-In Spring
Real time clock as standard	Versatile print formatting
Multi-drop communications	Variety of set point operating modes

5 Industries



4 Product Specifications



Operating Voltage: 230/115Vac (Selectable) 12-28VdC (according to specification)
 Power Consumption: 5 - 10W
 Common Mode Rejection (@500Hz): 120dB
 Power Supply Rejection (@500Hz): 120dB



Operating Environment -10° to +40°
 Storage Temperature -10° to +70°
 Span temperature coefficient: 1.6 ppm/°C
 Zero temperature coefficient: < 0.005 µV/oC

Transducer Input:	<ul style="list-style-type: none"> 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:	<ul style="list-style-type: none"> 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* <p><small>* According to specification</small></p>
I/O	<ul style="list-style-type: none"> Analogue output* 0-10V or 4-20ma: 15 bit (adjustable range). 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. Max ON current 60mA. Leakage <0.1ma Switched + or - <p><small>* According to specification</small></p>

6 Compliance and Certifications

- IP Rating IP-66
- Trade Approved for any R60 loadcells
- EMC Immunity/Emissions: EN45501, EN50082-2
- EC Approvals OIML Class III + III s:
Certificate: UK: UK3180, EU: 0200-NAWI-08407

8 Warranty and Liability

Warranty Period: 1 year manufacturers warranty is included from the date of installation

9 Service & Support

The **MARCO Hi-Care support programme** is offered with all our products to ensure that your MARCO system is fully supported in the most efficient and timely manner. [Find out more](#)

7 Options

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



Unleash the power of real-time data with **MARCO INSIGHTS**, our IoT-powered solution.

This advanced system harnesses the power of data visualisation and analytics, presenting actionable information in an intuitive and accessible manner.

10 Schematics



Want more information