

## CPI INDICATOR

### Analogue Output



### 1 Summary

The MARCO CPI Indicator delivers fast, accurate, and reliable weight measurement for demanding production environments.

With a bright LED display, multiple connectivity options, advanced filtering, and full OIML/UK approvals, the CPI is engineered for precision, flexibility, and seamless integration into modern weighing systems.

### 2 Product Specifications

<b>Model:</b>	CPI Indicator
<b>Dimensions (DxWxH):</b>	63mm x 144mm x 72mm
<b>Weight:</b>	0.34kg
<b>Enclosure:</b>	Panel mount DIN Standard 43700
<b>Annunciators:</b>	4 LEDs (Motion/Zero/Net/Gross)
<b>Internal resolution:</b>	24 bit ADC (1:16,777,215)
<b>Display:</b>	7 Red LED digits 14mm
<b>Input Signal Range:</b>	-6.5 > 6.5 mV/V
<b>Maximum Display Resolution:</b>	10,000 (trade)
	500,000 (x10 test mode) (non trade)
<b>Zero Offset Range:</b>	100% of Input Signal Range
<b>ADC Conversion Rate(Hz):</b>	50 (25/100*)
<b>Linearity error (%FS):</b>	< ± 0.0015% (+ digital correction)
<b>Differential non linearity:</b>	± 0.5 LSB

### 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

FRESH PRODUCE

FISH

DAIRY

FORMULATION

CONVENIENCE FOOD

MEAT/POULTRY

HERBS

BAKERY

### 4 Product Specifications



Operating Voltage: 12-28Vdc  
 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

<b>Transducer Input:</b>	<ul style="list-style-type: none"> <li>• <b>Transducer type (4 or 6 wire):</b> Resistive, full bridge</li> <li>• <b>Transducer input resistance:</b> min 43Ω (up to 8 x 350Ω cells)</li> <li>• <b>Excitation voltage:</b> 5 (nominal) vDC</li> <li>• <b>Minimum signal requirement:</b> 1 µV/e (approved)   0.1 µV/e (non approved)</li> <li>• <b>Input impedance:</b> ≥ 20 (sense and signal) MΩ</li> </ul>
<b>Serial Communication:</b>	<ul style="list-style-type: none"> <li>• <b>Communication Ports:</b> 1. Comms RS232 or RS485 / 2. Printer Port RS232 (TX/Busy)</li> <li>• <b>Baud Rate:</b> 2400, 4800, 9600, 19200, 38400 bits/sec</li> <li>• <b>Protocol:</b> 7/8 data bits, odd/even/no parity, 1/2 stop bits</li> <li>• <b>Maximum continuous data rate:</b> 50Hz (test mode)</li> <li>• <b>Communication protocol:</b> Ascii or ModBus*</li> </ul> <p><small>* According to specification</small></p>
<b>I/O</b>	<ul style="list-style-type: none"> <li>• <b>Analogue output*</b> 0-10V or 4-20ma: 15 bit (adjustable range). Max drive load for 4-20ma: 500Ω (active)/1200Ω (passive)</li> <li>• <b>Inputs 2 (4*):</b> Opto coupled inputs. &lt;6V off; &gt;10 -30V on (supply rail on board)</li> <li>• <b>Outputs 3 (5*):</b> Darlington type transistors. Max OFF voltage 27V. Max ON current 60mA. Leakage &lt;0.1ma Switched + or -</li> </ul> <p><small>* According to specification</small></p>

## 6 Compliance and Certifications

- IP Rating IP-54
- 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

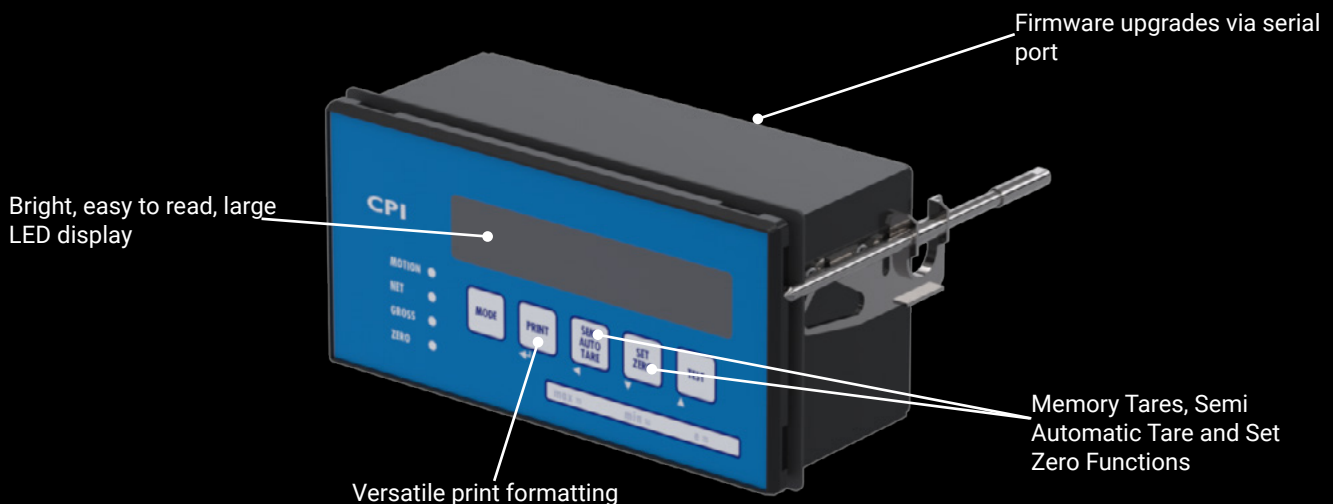
- 15 bit Analogue Output 4-20mA or 0-10V
- Flash Electronic Tally Record (Alibi device)
- ModBus Communications



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