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NICOL SCALES & MEASUREMENT

AN ISO/IEC 17025:2017
ACCREDITED CALIBRATION COMPANY

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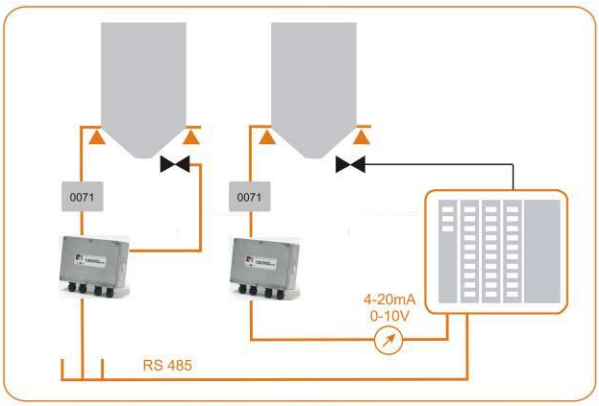
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NICOL SCALES & MEASUREMENT IS AN ISO ACCREDITED CALIBRATION COMPANY THAT HAS PROVIDED CALIBRATION, REPAIR AND SALES OF ALL TYPES OF WEIGHING AND MEASUREMENT PRODUCTS SINCE 1931.

1203 – Data Sheet





- RS232 and RS485 serial outputs
- 2 Isolated Outputs
- 1 Isolated Input
- Configurable Analogue Output
- PC Viewer software for full setup by serial port
- 100,000d @ 0.25µV/V/d
- 12-24 VDC

The 1203 weight transmitter is an economical, robust instrument that provides fast and accurate weight readings.

2 Isolated Outputs: Built-in outputs can drive alarms or can be used for simple level control applications.

Drive capability 300mA at up to 30VDC which allows for direct control of most DC powered actuators and relays

1 Isolated Input: Built-in input for remote zero, clear of peak value, or to enable PLCs to control serial transmission frequency

Configurable Analogue Output: Built-in 16-bit isolated analogue output for connection into PLCs

4-20mA, 0-24mA, 0-20mA

–10-10V, 0-10V, 2-10V, 0-5V,1-5V

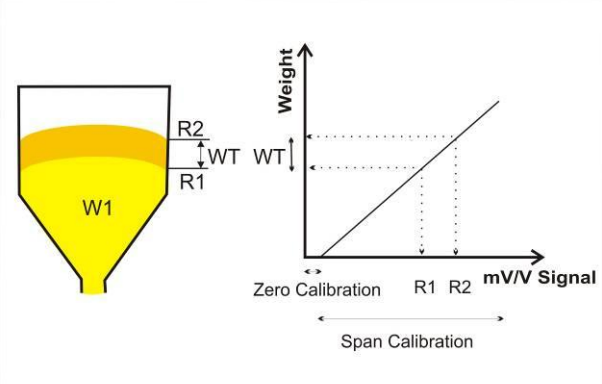
Built-in RS232 DB9 serial connection allows easy setup using the free Viewer software on a PC – allows for configuration to be saved and loaded onto other units.

RS232 and RS485 Serial Outputs: Built-in serial communications for connection to PLC controllers, PCs or score boards. Both are full duplex with RS485 supporting multi-drop networks of up to 30 units

100Hz updates for smooth analogue performance

Peak hold capability can be linked to a set point output, serial communications, display or analogue output

Smart Weighing



Flexible Calibration using direct mV/V entry

- Zero and Span calibration is completely independent.
- **Built-in** mV/V display mode allows for high accuracy direct mV/V calibrations.
- Calibration is possible with partially filled vessels without the need to empty the vessel or use test weights

..now that's smart weighing.

1203 Specification Table

	1203	1203-D	1203-B
Resolution	100,000 d @ 0.25 µV/d		
Approvals	FCC, CE, C-tick,		
Span Adjustment	0.1mV/V to 3.0mV/V full scale		
Excitation	8 V for up to 6 x 350 load cells (6-wire plus shield) Maximum total load cell resistance: 2,100 ohms		
A/D Type	24bit Sigma Delta with 8,388,608 internal counts		
Operating Environment	Temperature: –10° to +50°C ambient (14° to 122° F) Humidity: <90% non-condensing		
Setup and Calibration	Full digital with visual prompting in plain messages		
Digital Filter	Averaging 1, 2, 4, 8, 16, 32, 64, 128 or 256 readings (10ms to 2.56s)		
Standard Power Input	12VDC at 500mA max to 24VDC at 250mA max		
Serial Outputs	RS232 Full duplex Automatic transmit, network or printer outputs. Transmission rate: 2400, 4800 or 9600 baud RS485 Full Duplex - multi-drop network up to 30 units		
Input/Outputs	2 Outputs - isolated transistor drive outputs (300mA total at 30VDC) low side driver 1 Input		
Set points	2		
Analog Output	Configurable (4-20mA, 0-24mA, 0-20mA, –10-10V, 0-10V, 2-10V, 0-5V, 1-5V, etc) Sample rate: 100Hz (50Hz when scaled to user calibration) Maximum current-loop impedance: 1000Ω Minimum impedance between voltage outputs: 2000Ω		
Physical	**1203**	**1203-D**	**1203-B**
Display	-	6 LED 14mm(0.6in)	PCB only - not applicable
Case Materials	Cast Aluminium		
Environmental Rating	IP65	IP65	
1203 Display Service Tool	6 LED digits 14mm(0.6in) high with 4 Annunciators, 4 Units and 4 Buttons		

1203/1203-D (1203 same external dimensions with no display)	**1203-B**

