



Portable Load Cell Indicator / Strain Gauge Indicator AS020

The AS020 is a portable battery powered 4.5 digit LCD indicator, providing automatic Zero and Span calibration as well as programmable linearity adjustment. Additional standard features include selectable Units button, Tare (Zero) button, Peak-hold button, load-cell overload indication, low-battery status, read-out of calibration in mV/V and programmable display resolution. The inputs provide EMI-/RF-suppression. Transducer and battery wires can be easily connected by soldering or using SIL- or Molex connectors (supplied). Optional features include RS232 output, pre-drilled hand-held enclosure (IP65), protective rubber case, customer-specific enclosure foil and industrial standard sensor input socket.

Features

- Battery supply 3V (2xAA) or 9V (1xPP3)
- 5V stabilised bridge excitation
- Bridge resistance: 350 Ohm (or greater)
- Bridge sensitivity(max): 2.5 mV/V**
- Board Size (LxBxH): 68 x 96 x 10mm
- Dual Units: lb/kg – kN/tonne – 10lb/tonne
- Auto shut-off
- Optional RS232 output
- Optional Hand-Held Enclosure
- Optional Enclosure Overlays



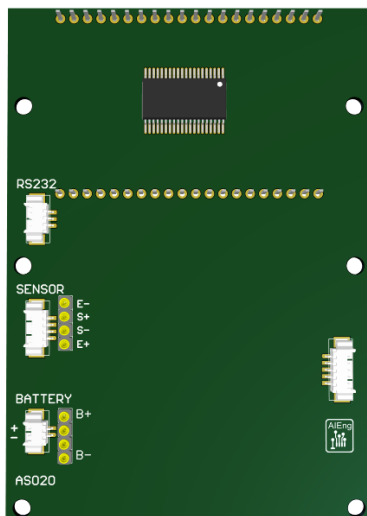
Applications

- Industrial Weighing
- Load Testing & Monitoring

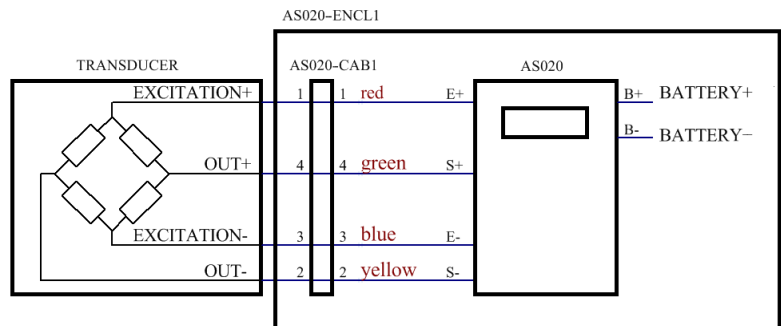
Ordering

Part number:	AS020
Default setting: 2mV/V, 1000.0kg, 9V battery	
Please refer to manual for changing default settings.	
Customer specific electrical / mechanical changes are possible – please contact us with your individual requirements.	

Board Connections



Schematic Diagram



Specifications


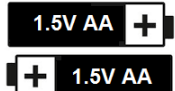
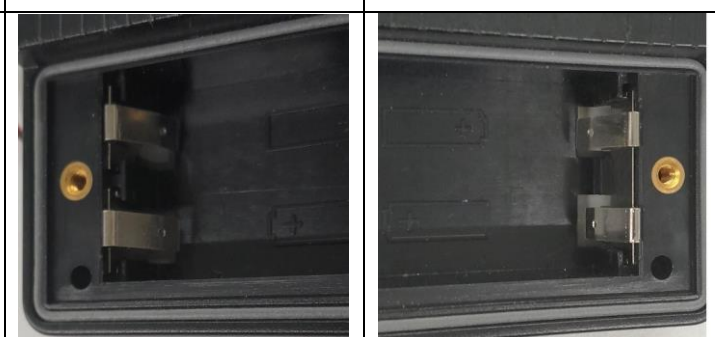
Parameter	Min	Typical	Max	Unit
Battery power supply (2xAA or 1xPP3)	1.5	3 or 9	12	V
Bridge sensitivity	0.2		2.5**	+/-mV/V
Bridge excitation voltage		5		V
Bridge resistance	350			Ohms
Linearity		0.01		% FS
Temperature coefficient – Zero		0.2		uV/°C
Temperature coefficient – Span		30		ppm/°C
Maximum display counts		19999		
Units (Dual)	lb-kg, kN-tonne, 10lb-tonne			
Low-battery voltage status		"Lobt"		
Load-cell overload status ("HELP")		102		% FS
LCD digit height		10.2		mm
Battery auto shut-off*		20		minutes
Battery life (3V battery with 350R sensor)		TBD		hours
Battery life (9V battery with 350R sensor)		TBD		hours
Operating temperature	-20		70	°C

* available with other Auto Shut-Off times or without Auto Shut-Off on request

** available for >2.5 mV/V bridge sensitivity on request

Battery Installation

The indicator can be powered by either 3V (2x 1.5 AA alkaline batteries) or 9V (1x 9V PP3 battery). The default setting is configured for 9V operation. For 3V operation please follow the instructions below.

Battery orientation	Left-hand side contacts	Right-hand side contacts
9V operation 	Installed	Not normally installed (may be installed to improve mechanical stability of a 9V PP3 battery, depending on its size)
3V operation 	Installed	Installed
The left-hand side contacts are always installed. For 3V operation carefully insert the metal contacts (supplied) into the right-hand side enclosure slot, mindful of sharp edges! The right-hand side contacts may enhance the mechanical stability of a 9V PP3 battery.		



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Optional Extras

Part number:	AS020-ENCL1	IP65 ABS Enclosure
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with display-, push switch cut-outs, incl. 3V (2xAA) and 9V (1xPP3) battery contacts, labels & LCD protection.



Part number:	AS020-CAB1	Industrial Sensor Connector (4-pin)
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incl. Molex cable with sensor plug (Connector - Binder Part no.: 09-3431-77-04)



Part number:	AS020-FOIL-RED/BLUE/GREEN	Standard and Customer-specific overlays With/Without "AS020" text
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Part number:	AS020-CASE-YELLOW/BLUE	Protective Cases available in two colours
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