

Analog Weight Transmitter

FEATURES

- Complete load cell signal conditioner
- Precise 10 VDC excitation supply for up to 4 load cells
- Selectable 0–5, 0–10 VDC or 4–20 mA analog output
- Independent zero and span adjustments
- DIN rail “snap track” mounting
- Internal load cell summing unit
- Adjustable analog filtering

APPLICATIONS

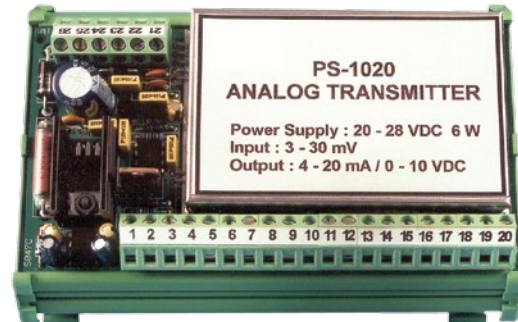
- Silo, bin, and hopper weighing
- Inventory measurement and control

DESCRIPTION

PS-1020 transmitters are self-contained load cell signal conditioners designed around a precision analog instrumentation amplifier. Units are 24 VDC powered and provide a well regulated excitation supply for up to four 350 ohm bridge load cells. Simple configuration is accomplished using DIP switches and trim pots. Integral load cell summing eliminates the need for external junction boxes.

Typical applications include bin or hopper conversion and ingredient inventory measurement systems.

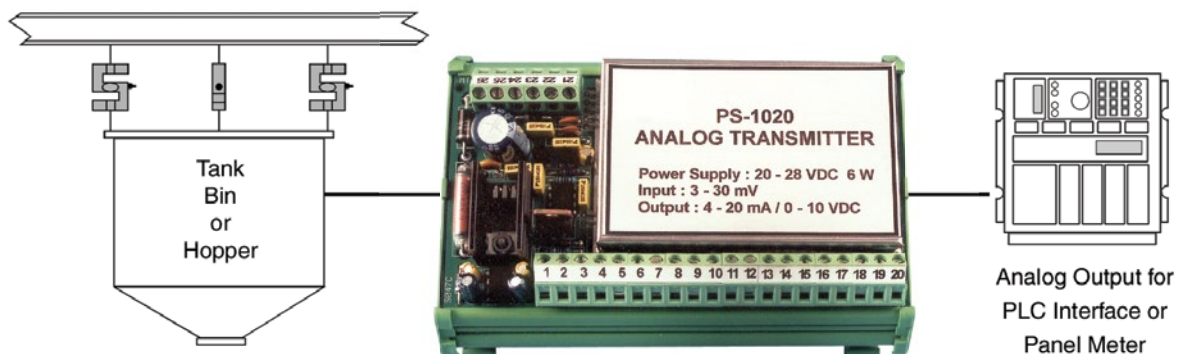
Standard ABS plastic, DIN rail design allows mounting close to the system transducers, thereby reducing installation costs. An integral 20-position terminal strip



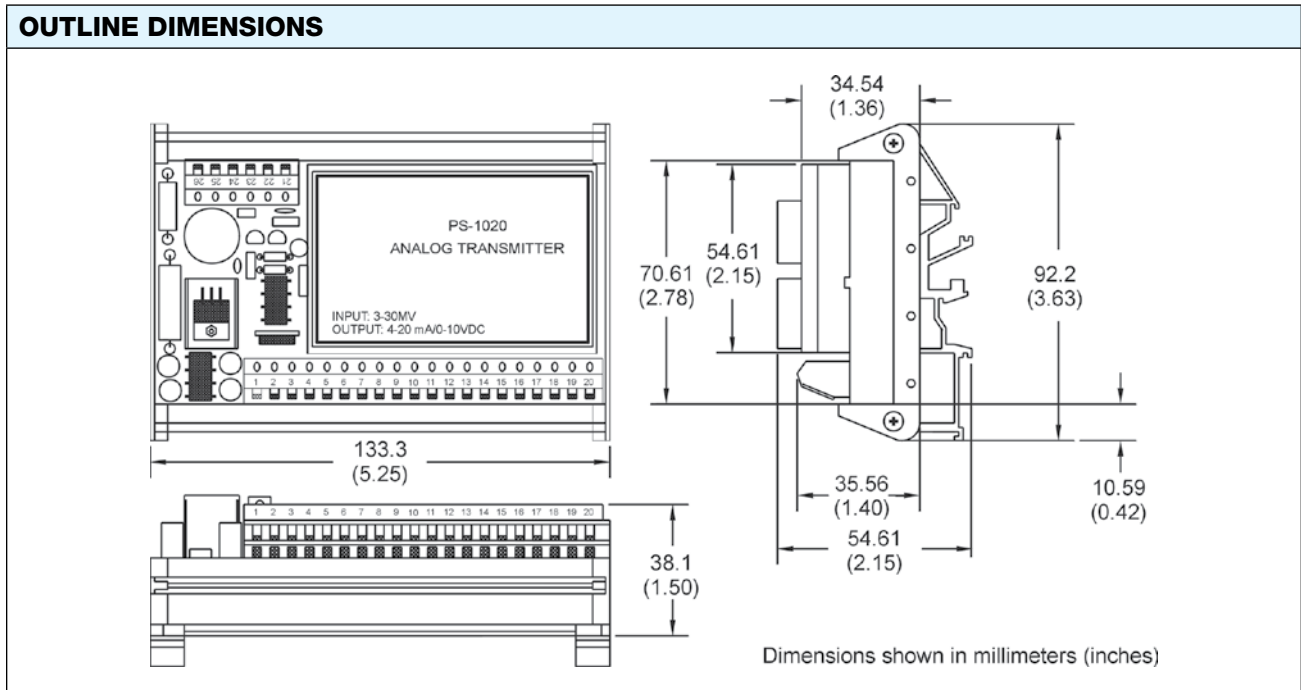
provides connections for up to four load cell transducers. All electrical connections are secured with screw terminals.

BLH Nobel offers the PS-121, 24 VDC power supply (data sheet #12155), for PS-1020 operation.

CONFIGURATION



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SPECIFICATIONS		SPECIFICATIONS	
PARAMETER	VALUE	PARAMETER	VALUE
PERFORMANCE		CONFIGURATION	
Full Scale Range	3 mV to 30 mV	Coarse Zero	4-position DIP-switch
Linearity	±0.2% of full scale	Fine Zero	20-turn trim pot
Excitation Voltage	10 VDC	Coarse Span	4-POSITION DIP-SWITCH
Load Current	200 mA (four – 350 ohmload cells)	FineSpan	20-turn trim pot
Thermal Stability	50 ppm/°C (full scale range) (28 ppm/°F)	Analog Filter	Adjustable, 270° turn trim pot
ENVIRONMENTAL		ENCLOSURE	
Operating Temperature-	+4 to +40°C (+14 to +104°F)	Overall Dimensions	See outline drawing above
Storage Temperature	-20 to +50°C (-4 to +122°F)	Mounting	DIN rail mount
Relative Humidity	85% rh, non-condensing	Material	ABS plastic
ELECTRICAL		Weight	212.6 grams (7.5 ounces)
Input Voltage	24 VDC ±15% 50/60 Hz	Wiring Connections	Terminal blocks, pitch 5.08 mm (0.196 in)
Power Consumption	6 W max	OPTIONS	
ANALOG OUTPUT (JUMPER SELECTABLE)		115 VAC Power Supply	DIN rail mount
Voltage	0 to 5, or 0 to 10 VDC (2 kΩ min load)	NEMA 4X Enclosure	Wall mount 254 × 203 × 102 mm (10 × 8 × 4 in)
Current	4 to 20 mA (500 Ω max load)	APPROVALS	
		CE	EN 50081-1, 50082-2, 61010-1

BLH Nobel is continually seeking to improve product quality and performance. Specifications may change accordingly.