

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.

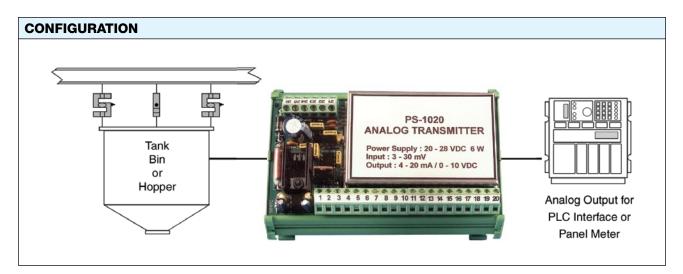
Standard ABS plastic, DIN rail design allows mounting close to the system transducers, thereby reducing installation costs. An integral 20-position terminal strip



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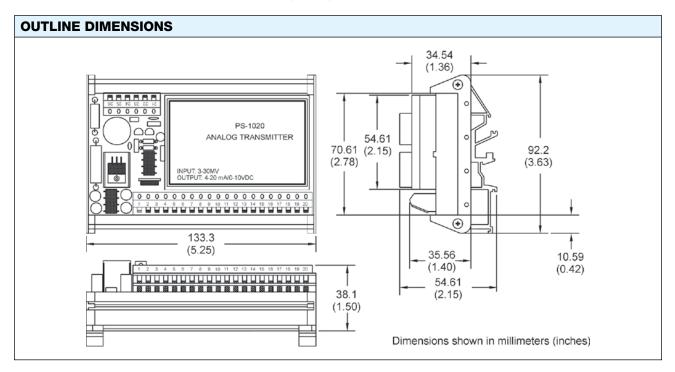
provides connections for up to four load cell transducers. All electrical connections are secured with screw terminals.

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





Analog Weight Transmitter



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



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