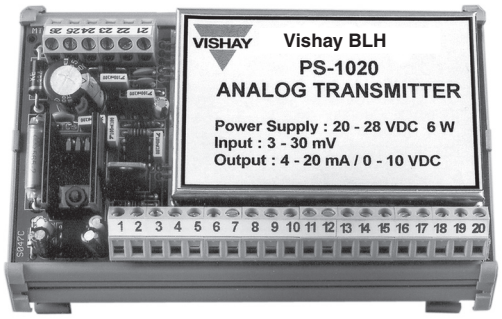
Analog Weight Transmitter



FEATURES

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

DESCRIPTION

PS-1020 transmitters are self-contained load cell signal conditioners designed around a precision analog instrumentation amplifier. Units are 24Vdc 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.

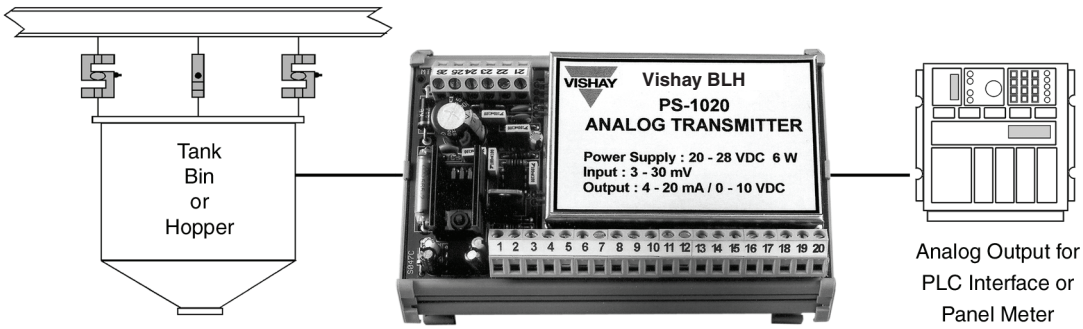
Standard ABS plastic, DIN rail design allows mounting close to the system transducers, thereby reducing installation costs. An integral 20-position terminal strip provides connections for up to four load cell transducers. All electrical connections are secured with screw terminals.

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

APPLICATIONS

- Silo, bin, and hopper weighing
- Inventory measurement and control
- Panel meter signal generator
- Analog data loggers

CONFIGURATION



SPECIFICATIONS

PERFORMANCE

Full Scale Range	3mV to 30mV
Linearity	±0.2% of full scale
Excitation Voltage	10Vdc
Load Current	200mA (four - 350 ohm load cells)
Thermal Stability	50ppm/°C (full scale range) (28ppm/°F)

ENVIRONMENTAL

Operating Temperature	-4 to +40°C (+14 to +104°F)
Storage Temperature	- 20 to +50°C (-4 to +122°F)
Relative Humidity	85% rh, non-condensing

ELECTRICAL

Input Voltage	24Vdc±15% 50/60Hz
Power Consumption	6 watts max

ANALOG OUTPUT (jumper selectable)

Voltage	0 to 5, or 0 to 10Vdc (2K ohm min load)
Current	4 to 20mA (500 ohm max load)

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 below
Mounting	DIN rail mount
Material	ABS plastic
Weight	212.6 grams (7.5 ounces)
Wiring Connections	terminal blocks, pitch 5.08mm (0.196 inch)

OPTIONS

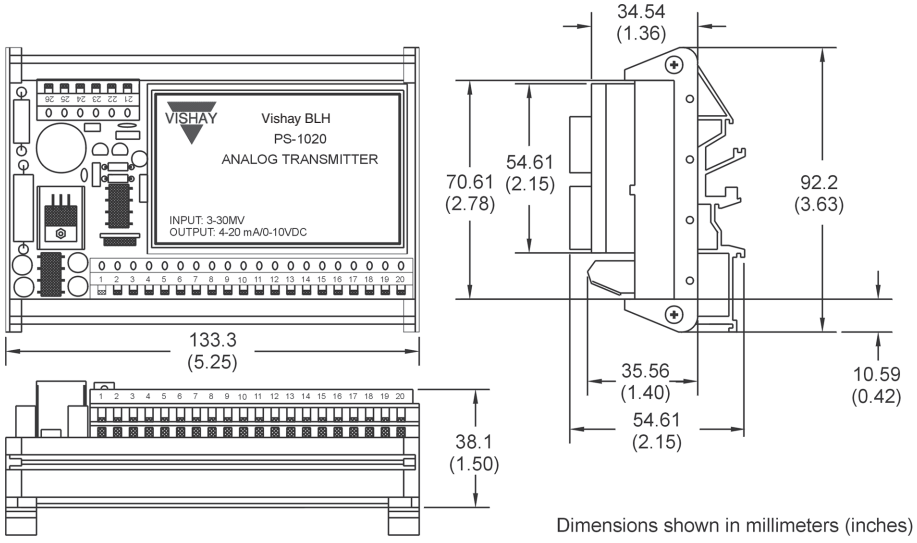
115VAC Power Supply	DIN rail mount
NEMA 4X Enclosure	wall mount 254 x 203 x 102 mm (10 x 8 x 4 inches)

APPROVALS

CE	EN 50081-1, 50082-2, 61010-1

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

OUTLINE DIMENSIONS



Dimensions shown in millimeters (inches)

Disclaimer

All product specifications and data are subject to change without notice.

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