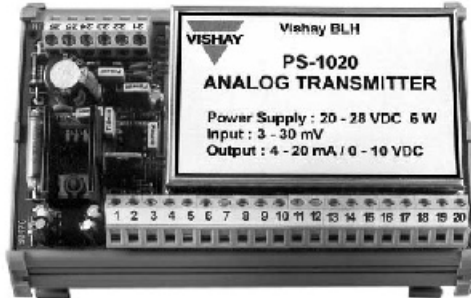


## Analog Weight Transmitter



### 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
- Adjustable Analog Filtering

### 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.

A precision 0-5V, 0-10V, or 4-20 mA (selectable) analog output provides factory floor communication for a data logger, remote panel meter, or PLC input.

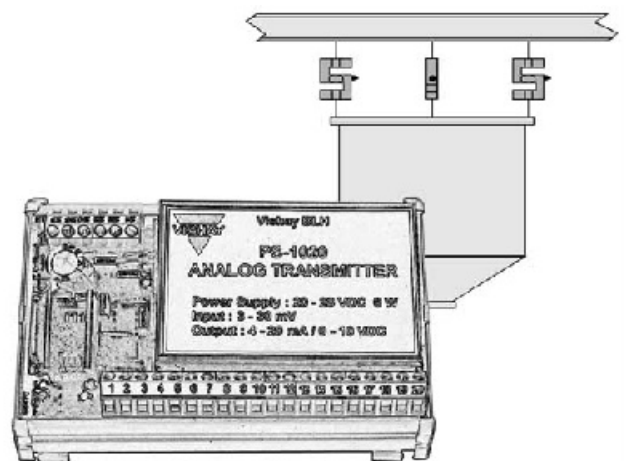
Typical applications include bin or hopper conversion and ingredient inventory measurement systems.

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.

NOTE: Physical configurations for web tension applications are limited since many require a fully bidirectional zero offset. Vishay BLH Models PS-1010 and PS-2010T Transmitters meet this requirement and are specifically designed for any web tension configuration.

### APPLICATIONS

- Silo, Bin, and Hopper Weighing
- Inventory Measurement and Control
- Panel Meter Signal Generator
- Analog Data Loggers



**SPECIFICATIONS**

**PERFORMANCE**

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

**ENVIRONMENTAL**

Operating Temperature	+14 to +104°F
Storage Temperature	-4 to +122°F
Relative Humidity	85% rh, non-condensing

**ELECTRICAL**

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

**ANALOG OUTPUT** (jumper selectable)

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

**CONFIGURATION**

Coarse Zero	4-position DIP-switch
Fine Zero	20-turn trim pot
Coarse Span	4-position DIP-switch
Fine Span	20-turn trim pot
Analog Filter	adjustable, 270° turn trim pot

**ENCLOSURE**

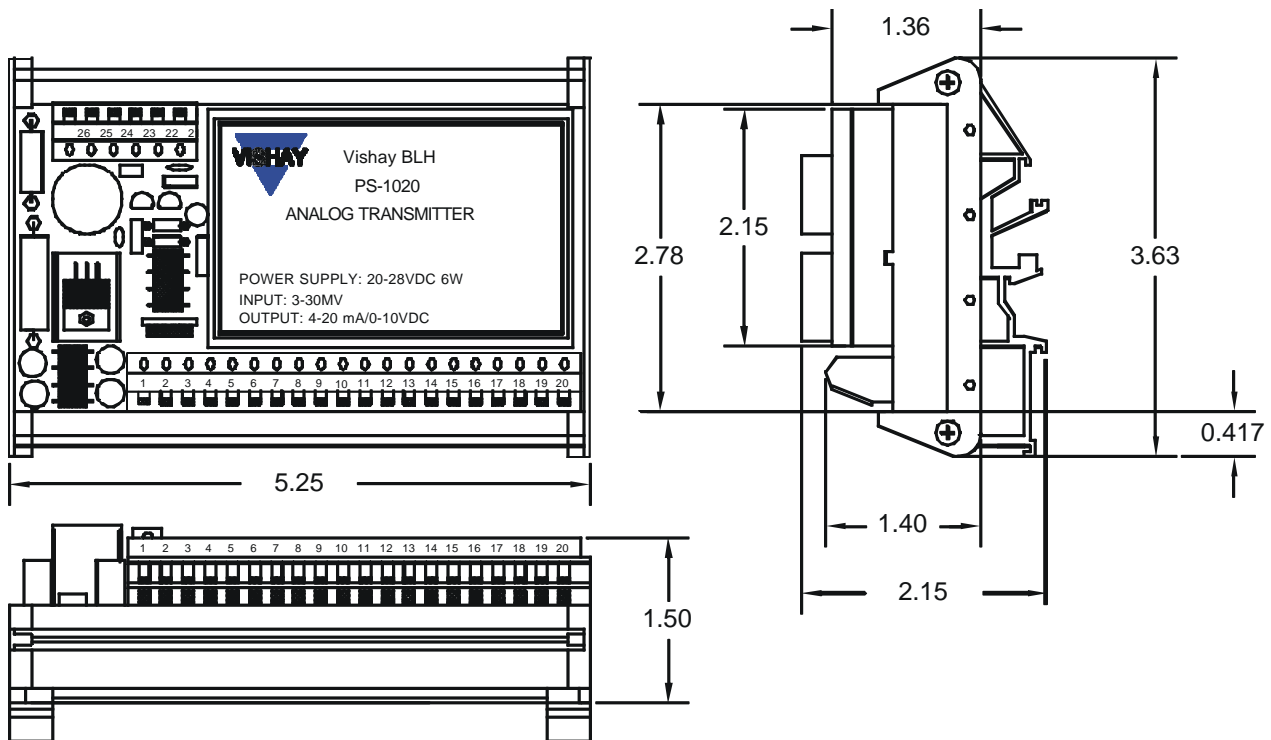
Overall Dimensions	5.25" x 3.63" x 2.15" (L x H x D)
Mounting	DIN rail mount
Material	ABS Plastic
Weight	7.5 ounces
Wiring Connections	terminal blocks, pitch 0.196"

**OPTIONS**

115 VAC Power Supply	DIN rail mount
NEMA 4X Enclosure	wall mount 10 x 8 x 4 inches

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

**OUTLINE DIMENSIONS**



Dimensions shown in inches