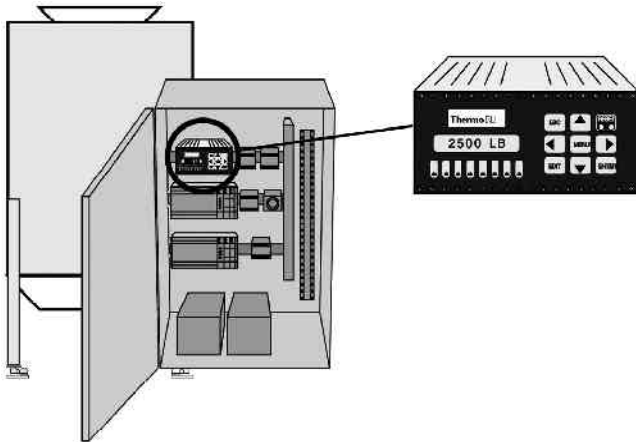


Application:

**Full Featured Process Weighing
Power in a Compact, DIN Rail
Mount Package**



- **Compact, Full Function Weight Indicator - Controller**
- **DIN Rail Mount Capability**
- **700,000 Count Resolution; Eight Millisecond Sample Rate**
- **Dynamic Digital Filtering with On-Line Diagnostics**
- **8 Open Collector Discrete Setpoint Outputs with Main (Coarse) and Dribble (Fine) Operation**
- **High Speed 120 Update -Per-Second Setpoint Actuation Speed**
- **4-20 mA Current Output**



Product Description

The Model PS-2010W offers high performance for applications that require a small, simple, full function weight transmitter and controller. Packaged much like a mini-PLC 'brick', the PS-2010W can be DIN rail mounted inside an existing cabinet. The standard RS-485 serial port interfaces easily with PLC/DCS systems using conventional ASCII protocol. A 16 bit resolution 4-20 mA analog current output is available. With 750,000 count resolution at an unfiltered sample rate of eight msec, the PS-2010W is well suited for high speed batch process control, checkweighing, and continuous feeding applications.

Simple set-up and calibration is performed using the integral LCD display and keypad assembly or optional Weigh-View™ PC software. In either case, Plug-n-Weigh® technology eliminates the need for test weights in most applications and greatly simplifies the calibration of systems that do require loading. In addition to Plug-n-Weigh®, the standard unit also includes Dynamic Digital Filtering and full set point features such as main, dribble, and in-flight compensation.

Eight integral setpoints with ultra high speed actuation provide precision process control for time critical applications.

The PS-2010W offers a cost effective, reliable solution for the OEM and system integrator.

ThermoBLH
An ISO 9001 Registered Company

Product Specifications and Outline Dimensions

Performance

Resolution	1,048,576 total counts
Displayed Resolution	700,000 counts
Conversion Speed	8.3 to 133 msec (5-selections)
Displayed Sensitivity	0.05 uV per count
Noise	0.4 uV per count (min. filt setting)
Full Scale Range	+/-3.5 mV/V
Dead Load Range	100% full scale
Input Impedance	10 m-ohms min
Excitation Voltage	10 Vdc @ 240 mA
Linearity	+/-0.003% full scale
Step Response	one conversion
Temp Coefficient Zero	+/-2ppm/°C
Temp Coefficient Span	+/-7ppm/°C

Environment

Operating Temperature	-10 to 50°C (15 to 122°F)
Storage Temperature	-25 to 80°C (-10 to 175°F)
Operating Humidity	95% rh non-condensing
Voltage	117/230 Vac
Power	+/-15% @ 50/60 Hz
	12 watts typical, 18 watts max

Display

Type	single line LCD
Active Digits	16 digit alpha numeric 24" high

Analog Output; 16 Bit D-A

Current	4-20 mA- 500 ohm max
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Approvals

CSA	Class I, Div. 2; Groups A, B, C, D
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Communications

Serial RS485	full or half duplex ASCII protocol 7 or 8 data bits- selectable odd, even or no parity- selectable Baud Rates 300, 1200, 2400, 4800, 9600, or 19200 protocol option
Modbus RTU	

Remote Inputs - 4

Type	TTL or dry contact closure
Functions	gross/net, tare, zero' and print
Low	0.0 to 0.4 Vdc
High	4.0 to 24 Vdc

Set Point Outputs - 8

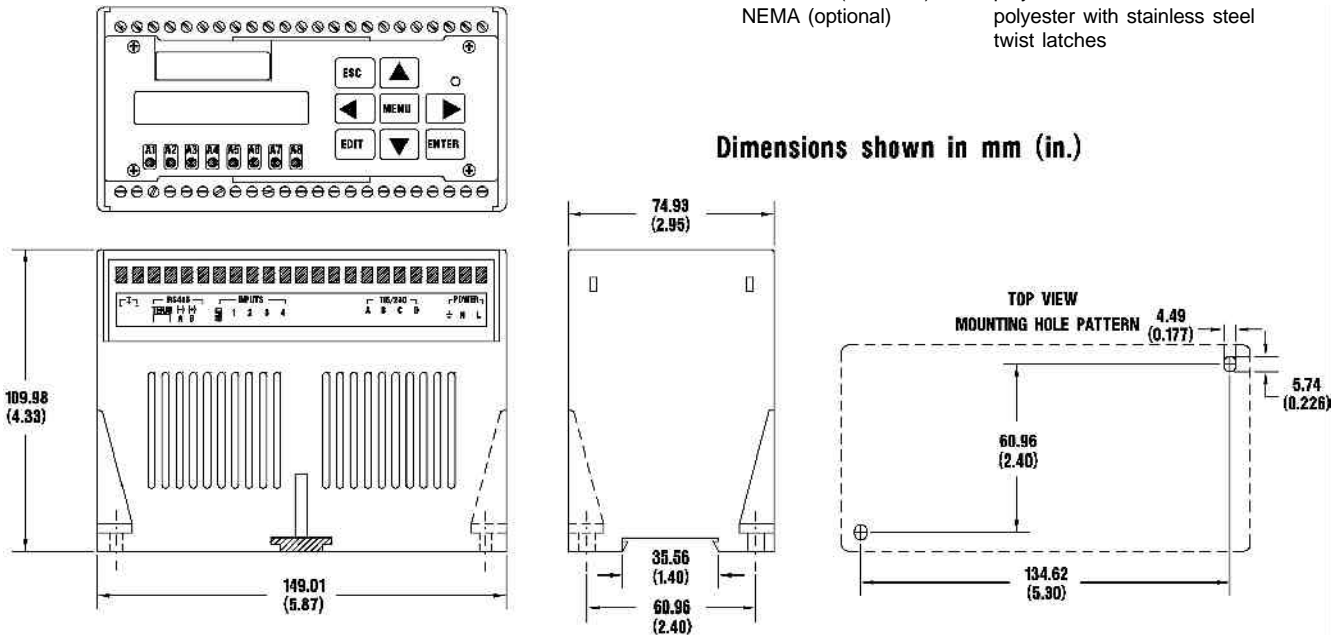
Type	open collector (current sinking)
Operating Voltage	5 - 35 Vdc
ON Voltage	1.2 Vdc @ 35 mA 0.8 Vdc @ 1 mA
OFF State Leakage	0.04 A @ 35 Vdc
Power	external supply required

Enclosure Mounting Dimensions

Standard Unit	5.8 x 3.0 x 4.3 in. LWD DIN rail or wall mount weight approx 3 pounds
Single Unit NEMA 4X Enclosure	11.73 x 9.85 x 6.13 in. LWD with single DIN rail mounting strip
Double Unit NEMA 4X Enclosure	13.7 x 11.8 x 6.5 in. LWD with two DIN rail mounting strips

Materials

Enclosure (standard)	polycarbonate
NEMA (optional)	polyester with stainless steel twist latches



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

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