

Weight Transmitters



FEATURES

- Microprocessor-based weight transmitter
- Integral multi-cell summing circuit
- Standard digital RS-485 output
- Optional analog 0-10V and 4-20mA outputs
- Optional Modbus RTU or Allen-Bradley remote I/O protocol
- Fault protected transducer excitation

DESCRIPTION

Self-contained microprocessor weight transmitters. Both units contain an internal multi-cell summing circuit, 10 or 15 volt excitation, and a digital RS-485 output. Analog 0-10 volt and 4-20 mA outputs are available as an option. DXp transmitters are designed to be field mounted within the standard cable length of the load cells and are available with NEMA 4, 4X, or explosion proof enclosures. The DXp-10 offers 20,000 counts of digital resolution with a response time of 400 milliseconds. For high speed batch and packaging applications, the DXp-15 offers 50,000 counts of digital resolution with a response time of 50 milliseconds.

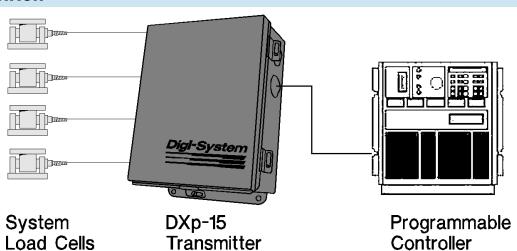
DXp-15 units are available with Allen-Bradley Remote I/O or Modbus RTU protocol for convenient interface with host PLC/DCS systems.

The DXp-10 and DXp-15 transmitters are designed for inventory and process weighing systems requiring transmission of high accuracy weight data to a computer or other control device. Availability of a wide variety of digital interface options simplifies communication of weight data to a host computer or PLC. The result is improved product quality and material control.

APPLICATIONS

- Inventory weighing
- · Process weighing
- Silo, bin, and hopper weighing systems

CONFIGURATION



BLH

Weight Transmitters



SPECIFICATIONS

Performance

Resolution

DXp-10 20,000 counts DXp-15 50,000 counts

Sensitivity:

DXp-10 1.0 microvolt/count
DXp-15 0.5 microvolt/count
Full Scale Range 25 or 35 mV (selectable)

Full Scale Range 25 or 35 r Dead Load Range 100%

Input Impedance 10 Mohms, min

Load Cell Excitation 10 V for up to eight 350 ohm

(Selectable) load cells (250 mA)

15 V for up to six 350 ohm load cells (260 mA)

Linearity ±0.01% of full scale

Humidity 5 to 90% rh, non-condensing Common Mode Rej. 100 db or better at or below 35Hz Normal Mode Rej. 100 db or better at or below 35Hz

Conversion Speed DXp-10 - 400 msec DXp-15 - 50 msec

Temperature Effects

Span ±2ppm/°C typical, 7ppm/°C max.

Zero ±2ppm/°C

Operating Temperature -10 to 55°C (12 to 131°F) Storage Temperature -20 to 85°C (-4 to 185°F)

Electrical

Voltage 115/230 Vac ±15% 50/60 Hz

Power 10 watts max Parameter Storage EEPROM

EMI/RFI Shielded from typical industrial

interference

Enclosure

Dimensions (NEMA 4/4X) 11.5x 8.0 x4.3 HxWxD

Explosion Proof 12.875x 10.875x8.188 HxWxD

Options

Isolated Analog Output(S)

Type 12 bit D/A conversion

Voltage 0 to 10 volt (25K ohm min load)
Current 4 to 20 mA (1000 ohm max load)

Serial Communication

Simplex Data Output (Standard)

Interface Type RS-485 (simplex)

Data Format Simplex ASCII data 7 Data Bit

Even Parity 1 Stop Bit

Terminal/Computer Interface (Optional)

Interface Type RS-485 Half Duplex (Standard)

Baud 1200 or 9600

Protocol ASCII duplex command/

response format

Approvals

CSA

FM (Factory Mutual) 3611 (Class I, II, III;

Div.1, 2; Groups A-G) C22.2 (Class I, II,III;

Div.1, 2; Groups A-G)

Modbus RTU Protocol (DXp-15 Option Only)

See manual TM002 for function codes and register locations.

Allen-Bradley Remote I/O (DXp-15 Option Only)

See manual TM010 or technical note TD078 for details.

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

Legal Disclaimer Notice



Vishay Precision Group

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