DXp-10 and DXp-15

BLH





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

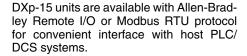
DESCRIPTION

VISHAY

GROUP

Self-contained microprocessor based 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.

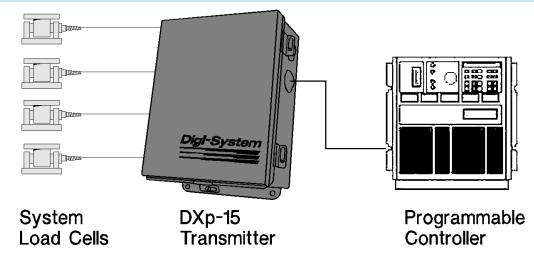
CONFIGURATION



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



DXp-10 and DXp-15

BLH

Weight Transmitters



SPECIFICATIONS

Performance

Resolution DXp-10 DXp-15

Sensitivity: DXp-10 DXp-15

> Full Scale Range Dead Load Range Input Impedance Load Cell Excitation (Selectable)

> Linearity Humidity Common Mode Rej. Normal Mode Rej. Conversion Speed

Temperature Effects

Span Zero Operating Temperature Storage Temperature

Electrical

Voltage Power Parameter Storage EMI/RFI 20,000 counts 50,000 counts

1.0 microvolt/count 0.5 microvolt/count 25 or 35 mV (selectable) 100% 10 Mohms, min 10 V for up to eight 350 ohm load cells (250 mA) 15 V for up to six 350 ohm load cells (260 mA) ±0.01% of full scale 5 to 90% rh, non-condensing 100 db or better at or below 35Hz 100 db or better at or below 35Hz DXp-10 - 400 msec DXp-15 - 50 msec

±2ppm/°C typical, 7ppm/°C max. ±2ppm/°C -10 to 55°C (12 to 131°F) -20 to 85°C (-4 to 185°F)

115/230 Vac ±15% 50/60 Hz 10 watts max EEPROM Shielded from typical industrial interference

Enclosure

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

 Explosion Proof
 12.875x
 10.875x
 188 HxWxD

Options

Isolated Analog Output(S)

Туре	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

FM (Factory Mutual)	3611 (Class I, II, III;
	Div.1, 2; Groups A-G)
CSA	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.

DXP-10- [M]-[C]-[P]-[S] Blind Weigh Transmitter with 20,000 Count Resolution DXP-15- [M]-[C]-[P]-[S] Blind Weigh Transmitter with 50,000 Count Resolution			
<i>,</i>	DXP-10	<u>DXP-15</u>	
 [M] MOUNTING [1] NEMA 4 PAINTED STEEL ENCLOSURE [2] NEMA 4X STAINLESS STEEL ENCLOSURE [3] NEMA 7/9 EX ENCLOSURE [Class I II, Div 1 2, Group BCDEFG] 	STD	STD	
 [8] #1 & FM/CSA Approved [Class I II III, Div 2, Group ABCD FG] [9] #2 & FM/CSA Approved [Class I II III, Div 2, Group ABCD FG] 			
[1] RS-485 DIGI-SYTEM ENABLED	STD	STD	
 [2] #1 & RS-485 ASCII PROTOCOL [4] ALLEN-BRADLEY REMOTE I/O (NOTE: [1] & [2] DELETED) 	N/A N/A		
[5] #1 AND MODBUS RTU PROTOCOL *	N/A		
 [P] PROCESS OUTPUTS [1] NO PROCESS OUTPUT [2] 0-10 V & 4-20 mA ANALOG 	STD	STD	
 [S] SOFTWARE [1] STANDARD [2] DYNAMIC DIGITAL FILTERING 	STD N/A	STD	
ACCESSORIES: Conduit Fitting Kit (6 connectors) P/N 465231			

Cable Fitting Kit (6 connectors) P/N 465232

* May Require RS-485 to RS-232 Serial Converter. See Section VI