

Weight Transmitters

FEATURES

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

APPLICATIONS

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

DESCRIPTION

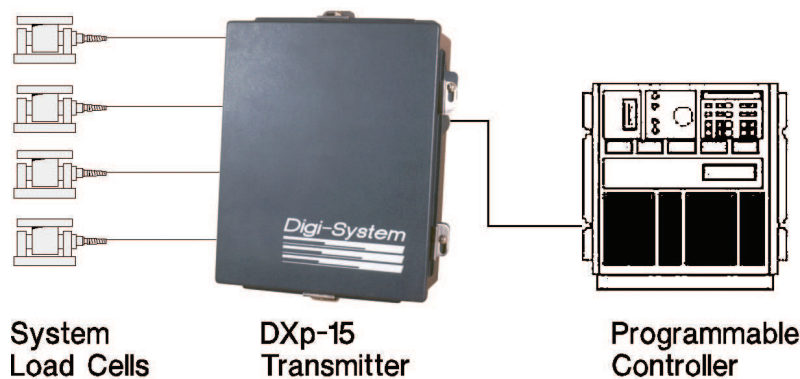
Self-contained microprocessor based weight transmitters. Both units contain an internal multi-cell summing circuit, 10 or 15 V excitation, and a digital RS-485 output. Analog 0–10 V and 4–20 mA outputs are available as an option. DXp transmitters are designed to be field mounted within the standard cable 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 ms. For high speed batch and packaging applications, the DXp-15 offers 50,000 counts of digital resolution with a response time of 50 ms.

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.

CONFIGURATION



Weight Transmitters

SPECIFICATIONS		PARAMETER	VALUE
PERFORMANCE		PARAMETER	VALUE
Resolution DXp-10	20,000 counts	ENCLOSURE	
Resolution DXp-15	50,000 counts	Dimensions (NEMA 4/4X)	11.5×8.0×4.3 in H×W×D
Sensitivity DXp-10	1.0 µV/count	Explosion Proof	12.875×10.875×8.188 in H×W×D
Sensitivity DXp-15	0.5 µV/count	OPTIONS – ISOLATED ANALOG OUTPUT(S)	
Full Scale Range	25 or 35 mV (selectable)	Type	12 bit D/A conversion
Dead Load Range	100%	Voltage	0 to 10 V (25 kΩ min. load)
Input Impedance	10 MΩ, min.	Current	4 to 20 mA (1,000 Ω max. load)
Load Cell Excitation (Selectable)	10 V for up to eight 350 Ω load cells (250 mA) 15 V for up to six 350 Ω load cells (260 mA)	SERIAL COMMUNICATION SIMPLEX DATA OUTPUT (STANDARD)	
Linearity	±0.01% of full scale	Interface Type	RS-485 (simplex)
Humidity	5 to 90% rh, non-condensing	Data Format	Simplex ASCII data 7 Data Bit Even Parity 1 Stop Bit
Common Mode Rej.	100 db or better at or below 35 Hz	SERIAL COMMUNICATION TERMINAL/COMPUTER INTERFACE (OPTIONAL)	
Normal Mode Rej.	100 db or better at or below 35 Hz	Interface Type	RS-485 Half Duplex (Standard)
Conversion Speed DXp-10	400 ms	Baud	1,200 or 9,600
Conversion Speed DXp-15	50 ms	Protocol	ASCII duplex command/ response format
TEMPERATURE EFFECTS		APPROVALS	
Span	±2 ppm/°C typical, 7 ppm/°C max.	FM (Factory Mutual)	3611 (Class I, II, III; Div.1, 2; Groups A-G)
Zero	±2 ppm/°C	MODBUS RTU PROTOCOL (DXP-15 OPTION ONLY)	
Operating Temperature	-10 to 55°C (12 to 131°F)	ALLEN-BRADLEY REMOTE L/O (DXP-15 OPTION ONLY)	
Storage Temperature	-20 to 85°C (-4 to 185°F)		
ELECTRICAL			
Voltage	115/230 VAC ±15% 50/60 Hz		
Power	10 W max.		
Parameter Storage	EEPROM		
EMI/RFI	Shielded from typical industrial interference		

NOTE: Allen-Bradley is a trademark of Allen-Bradley Co.,Inc. Modbus is a trademark of Schneider.

BLH Nobel is continually seeking to improve product quality and performance. Specifications may change without notice.



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