

Duratran® Transmitter/Gauge, Takes the Place of an Electronic Transmitter and a Mechanical Gauge

- FM approved to 10,000 psi
- 4-20mA, 2 wire output
- Zero and span adjustments
- 4½" solid-front phenolic case
- Accuracy: $\pm 0.5\%$ full scale including linearity, hysteresis and repeatability

New Duratran®PLUS! Option:

- Liquid-filled performance in a dry gauge
- Fights vibration and pulsations without liquid-filled headaches
- See page 10 for details
- Order as option XLL

The result is reliable, local, analog pressure indication with an economical transmitter . . . A niche solution for any facility.

The Duratran® solution is a reliable Duragauge® pressure gauge fitted with optical circuitry to provide a 4-20mA output.

The 4½" phenolic case is hermetically sealed, chemical and heat resistant.

The wide selection of system materials and corrosion-proof housing meets a variety of demanding applications . . . even those with vibration and pulsation.

This transmitter/gauge allows you to save money, replacing two instruments with one Duratran.



TABLE A – BOURDON TUBE SELECTION

Ordering Code	Bourdon Tube and Tip Material (all joints TIG welded)	Socket Material	Pressure Range Type	(psi)	NPT Connection
S	316 SS	316 SS	Drawn "C" Tube	12/1500	½
			Drawn Helical Tube	2000/20,000	
P	K Monel	Monel 400	Drawn "C" Tube	12/1500	½
			Drawn Helical Tube	2000/20,000	

TABLE B – STANDARD psi RANGES

0/12	0/600
0/15	0/800
0/30	0/1000
0/60	0/1500
0/100	0/2000
0/160	0/3000
0/200	0/5000
0/300	0/10,000
0/400	0/20,000*

*Not FM approved range

SPECIFICATIONS

Functional Service:	Liquid, gas or vapor
Ranges:	See Table B
Output:	4-20mA, 2 wire
Power Supply:	12/40 Vdc
Zero Adjustment:	$\pm 20\%$ of full scale
Span Adjustment:	$\pm 10\%$ of full scale
Temperature Limit:	-40°F to 160°F
Overpressure Limits:	130% of range without damage to tube
Humidity Limits:	Up to 90% relative humidity noncondensing
Signal Damping:	Fixed electronic damping time constant of 0.2 seconds
Turn On Time:	Less than 1 second
Enclosure:	Similar to NEMA 4

AGENCY APPROVAL

Factory Mutual approved as intrinsically safe for Class I, II and III, Division 1, applicable Groups A, B, C, D, E and G in accordance with Dresser drawing 71B185 and entity requirements; nonincendive for Class I, II, III, Division 2, Groups A, B, C, D and G hazardous locations.

PERFORMANCE

Accuracy:	$\pm 0.5\%$ including linearity, hysteresis, and repeatability
Stability:	$\pm 0.25\%$ F.S. for 6 months
Temperature Effect:	Less than 0.02% of span/°F
Position Effect:	Vertical mounting recommended May be re-zeroed to correct error in other positions

PHYSICAL

Dial Size:	4½"
Case:	Solid front, black phenolic hermetically sealed
Ring:	Threaded, glass-filled polypropylene
Mounting:	Stem, surface, flush (with 1278 M ring)
Pressure Connection:	½ NPT
Window:	Laminated safety glass
Calibration:	Transmitter—Span and zero adjustment on dial Gauge—Zero adjustment with micrometer pointer
Electrical Connection:	30" #18 wire AWG, ½ NPT liquid tight conduit connection at case
Weight:	3 lb

TO ORDER THIS TYPE 2279 DURATRAN TRANSMITTER:

Select:	4½"	2279	(S)SH	04L	XFM	w/1278M Ring	0/100 psi
1. Dial Size	_____	_____	_____	_____	_____	_____	_____
2. Case Type Number	_____	_____	_____	_____	_____	_____	_____
3. Bourdon System (ordering code)—Table A	_____	_____	_____	_____	_____	_____	_____
4. Connection: Location & Size—½ NPT (04) Lower (L)	_____	_____	_____	_____	_____	_____	_____
5. Factory Mutual Approval	_____	_____	_____	_____	_____	_____	_____
6. Mounting Accessory or Variation (if required)	_____	_____	_____	_____	_____	_____	_____
7. Range—Table B	_____	_____	_____	_____	_____	_____	_____