

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: ±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 stainless steel | 316 stainless steel | 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: | ±20% of full scale |
| Span Adjustment: | ±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: | ±0.5% including linearity, hysteresis, and repeatability |
| Stability: | ±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

- Dial Size _____
- Case Type Number _____
- Bourdon System (ordering code)—Table A _____
- Connection: Location & Size—½ NPT (04) Lower (L) _____
- Factory Mutual Approval _____
- Mounting Accessory or Variation (if required) _____
- Range—Table B _____

*Consult factory for guidance in product selection
Phone (203) 385-0217, Fax (203) 385-0602 or
visit our web site at www.ashcroft.com*