Temperature Compensating Index

20-YEAR NOMINAL BATTERY LIFE
EASILY ADAPTS TO MOST POPULAR ROTARY METERS

Direct-mount, Electronic
Temperature Compensating Index
A rugged, reliable & **accurate** electronic temperature compensating index that provides three pulse outputs channels for AMR connections - standard.

An advanced, yet simple to use, electronic temperature compensating index available for natural gas rotary meters, the Mercury Instruments TCI™. This value-priced index is an ideal replacement for mechanical TC indexes. Since volume pulse output channels are standard on the TCI, during assembly, AMR modules of your choice can also be pre-installed to reduce installation costs and improve reliability.

### Product Features
- Numeric LCD with configuration icons
- Live calculated flow rate displayed on numeric LCD to support field DP rate test and field meter service.
- LCD characters electronically inverted to facilitate left-side or right-side meter mounting
- Electronics sealed in silicon potting material for improved reliability and product life
- Ruggedized push-button for the LCD scroll
- User-configurable fixed pressure factor
- Adapter plates for most popular rotary meters
- Redundant volume inputs from rotary meter
- Two isolated volume pulse output channels
- One isolated pulse output channel for alarm or volume
- Compatible with Itron, Sensus, Aclara, Cellnet and other AMR devices*
- Removable backup memory module with 90 day backup (redundant electronic index)

### Specifications

#### Temperature Measurement System
- Highly stable, solid state temperature sensor (thermistor)
- Range: -40 to 170°F (-40 to 70°C)

#### Temperature Accuracy
- Reference to absolute temperature
  - -4 to 104°F (-20 to 40°C) ± 0.1%
  - -40 to 170°F (-40 to 70°C) ± 0.25%

#### Computational Accuracy
- Computation: ± 0.3% of compensated volume reading

#### Long Term Stability
- Total: ± 0.5% reference to absolute temperature

#### Environmental Conditions
- Ambient temperature range: -40 to 170°F (-40 to 76.6°C)
- Ambient humidity range: 0 to 100% non-condensing

#### Ambient Temperature Effects
- Total: ± 0.1% of compensated volume per 100°F from -40 to 170°F (-40 to 76.6°C)

### Certifications
- IEC 61000-4-2 (Electrostatic discharge)
- IEC 61000-4-3 (Electromagnetic fields)
- Measurement Canada Approval No. AG-0562 Rev. 1
- Class 1, Division 1 & 2, Group D
- FCC Part 15

### Enclosure
- Grey opaque polycarbonate with clear Lexan window over LCD
- Designed and tested to comply with NEMA 6 and IP-67 ratings
- Immersion test: immersion under 1 meter of water for duration of 72 hours (No AMR connections)
- Mounting plate with gasket and bolts to accommodate most rotary meters

### Meter Adapter Plates
- Dresser: LMMA & B3
- Romet: RM1000 - RM38,000
- Elster American Meter: C-body*

*Other trademarks owned by their respective companies.

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**Find Out More:**
To learn more about Mercury Instruments products, contact your Honeywell Process Solutions representative, visit [www.mercuryinstruments.com](http://www.mercuryinstruments.com) or call 513-272-1111.

**Automation and Control Solutions**
Honeywell Process Solutions
3940 Virginia Ave.
Cincinnati, OH 45227
513-272-1111
www.honeywell.com

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