



## Case Expansion Transducer TM0602

For steam turbine applications, the relative case expansion due to thermal effect should be monitored. Case expansion is the thermal growth of the machine case as it expands during machine start-up and on-line operations. The TM0602 is typically mounted on the foundation at the opposite end from where the turbine casing is attached to the foundation. The case expansion transducer system provides information on the growth of the machine case relative to the foundation.

LVDTs (linear variable differential transformers) are used to measure the case expansion. Three different linear ranges are available: 25mm (1.0"), 50mm (2.0") and 100mm (4.0"). The case expansion transducer assembly consists of an LVDT that is housed in a weatherproof protective enclosure.

### Specifications

#### Electrical

Sensitivity:

TM0602-A01: 0.4V/mm (10V/in)  
TM0602-A02: 0.2V/mm (5V/in)  
TM0602-A03: 0.1V/mm (2.5V/in)

Linearity:

+/- 0.5% full-scale

Stability:

0.125% full-scale



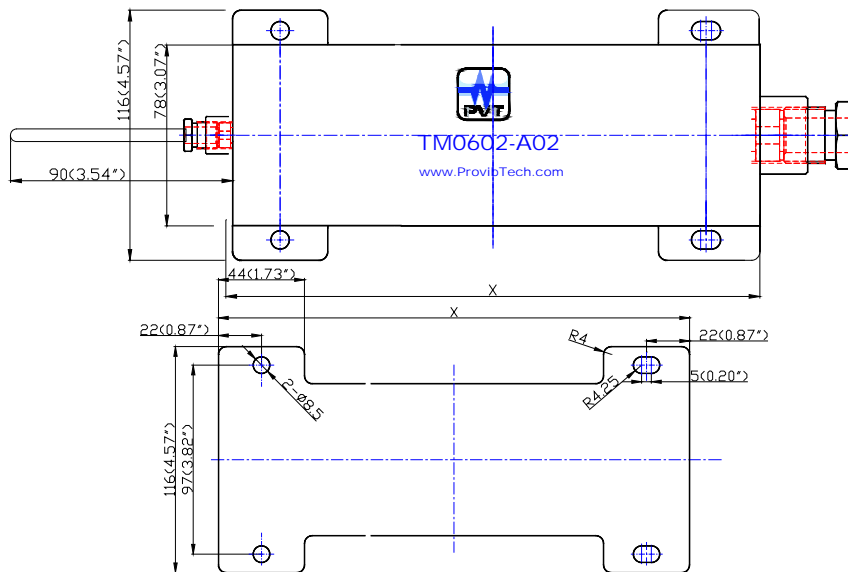
#### Environmental and Physical

Temperature Range: -18°C to +71°C (0°F to +160°F)  
Storage Temperature: -54°C to +93°C (-65°F to +200°F)  
Dimensions: See drawing  
Weight: 4 kilograms  
Case Material: Stainless steel

#### Order Information

##### TM0602-AXX

AXX: Linear range  
A01: 25mm (1.0")  
A02: 50mm (2.0")  
A03: 100mm (4.0")





## High-Pressure Probe Mount TM0393X

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### Accessories Selection Guide

Model Number	Description	Approval
TM0393X	Hi-Pressure Probe Mount	•
TM0540	Static Calibrator	
TM0901	Hi-Pressure Cable Feed Through	
TM0902	Low-Pressure Cable Seal	
TM0903-A01	Junction Box 1	•
TM0903-A02	Junction Box 2	•
TM0904	Flexible Conduit	•
TM0906	Mounting Bracket	