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Qualified Hermetic Exhaust Gas Temperature Thermocouple Upgrade

FOR NEW AND EXISTING FRAME 5, 6, 7, AND 9 GAS TURBINE APPLICATIONS

THERMOCOUPLE

FIT-IT & FORGET-IT

Eliminate Exhaust Gas Temperature (EGT) thermocouple concerns with AMETEK's new EGT thermocouple product offering for Frame turbine applications. AMETEK has worked closely with the turbine OEM to design and engine test this thermocouple as a direct replacement and upgrade for all new and existing EGT thermocouples. The new EGT thermocouples are qualified and meet all design specifications.

MISTAKE-FREE INSTALLATION

The new EGT design makes it impossible to over-tighten, while ensuring the proper immersion depth of the thermocouple into the radiation shield. Furthermore, the new EGT design allows the cable leads to be attached to the thermocouple prior to insertion into the radiation shield, and also enables a convenient, stress-free orientation of the thermocouple junction box and cable leads.

SINGLE EGT THERMOCOUPLES AND COMPLETE UPGRADE KITS AVAILABLE

Whether you are upgrading from the 302A4010Pxxx, 351A3488Pxxx, or the 362A1102Pxxx EGT thermocouples, AMETEK can provide either the thermocouples only or the complete upgrade kit with all the required fittings, adapters, and cables. A more detailed description of the many different upgrade options available, including parts lists, installation instructions, and drawings, can be found in AMETEK's **EGT THERMOCOUPLE RETROFIT MANUAL**.

AMETEK

POWER INSTRUMENTS

FEATURES AND BENEFITS

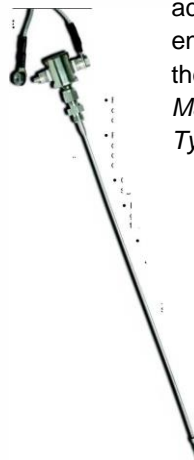
Foolproof Installation—ensures proper insertion depth and eliminates over-tightening induced open circuit failures

Flexible Installation—enables cable leads to be connected prior to assembly and a stress-free orientation of the thermocouple junction box and cable leads

Quick Installation—use of compression fitting significantly reduces installation time

New Probe Design—eliminates thermal gradient differences that could cause thermocouple element breakage

Includes the Benefits of the Original Design — *100% Hermetic* for high accuracy and long life, *Positive Stop* to ensure proper location of the thermocouple into the radiation shield, *Material Selection* eliminates seizure, *Type K Terminal Studs* to reduce secondary junction error, and a *Junction Box* that simplifies installation and makes cable connection foolproof



SPECIFICATIONS

Calibration

- Type K, ungrounded
- Error: special limits ($\pm 0.4\%$)

Time Response

- Approximately 2.9 seconds

Hermetic Seal

- 1×10^{-6} cc/sec for entire thermocouple

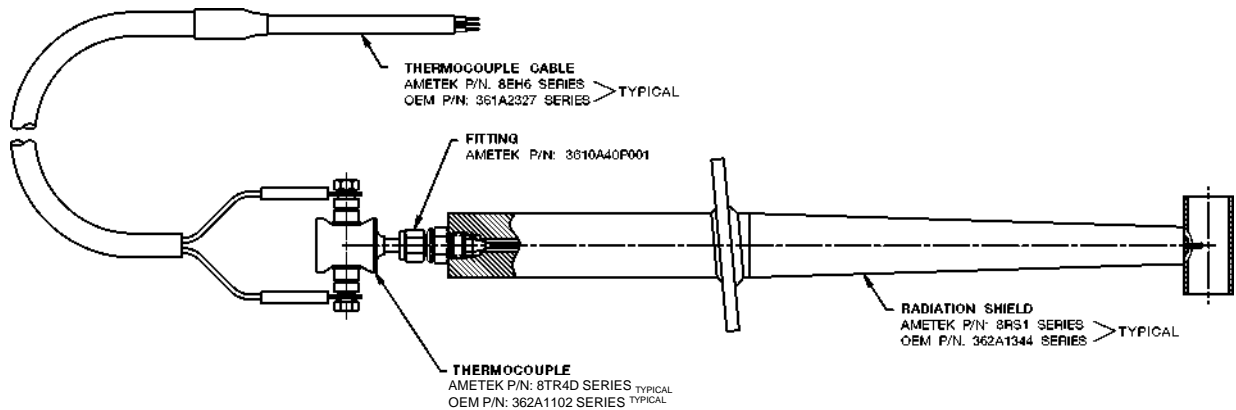
Environment

- -20° to 700° F at thermocouple junction box (-29° to 371° C)
- -20° to 392° F for the cable (-29° to 200° C)
- 100% humidity for the entire thermocouple

Lengths

- For Frame 5, 6, 7, and 9 gas turbine applications

Figure 1: Replacing 362A1102P001, P006, or P011 EGT Thermocouples



For details on how to replace 302A4010Pxxx or 351A3488Pxxx EGT Thermocouples, please refer to AMETEK's **EGT THERMOCOUPLE RETROFIT MANUAL**.

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