3-Wire PT100 Temperature Sensor

Model 8060A

Overview

The AMOT 8060 3-wire PT100 Temperature Sensor is a complete unit consisting of a platinum RTD, stainless steel well and NEMA 6 aluminum connection head. The sensor uses PT 100 RTD to reduce installation cost by using ordinary copper leads for extension wires which require no cold junction compensation. Other types of thermocouples use special wires that increase overall system costs. The 8060 is the best choice for a temperature sensor to control the AMOT model G, 3-Way Temperature Control Valve, as shown in the operation diagram on page 2.

Type 8060A
Temperature Sensor

Typical applications

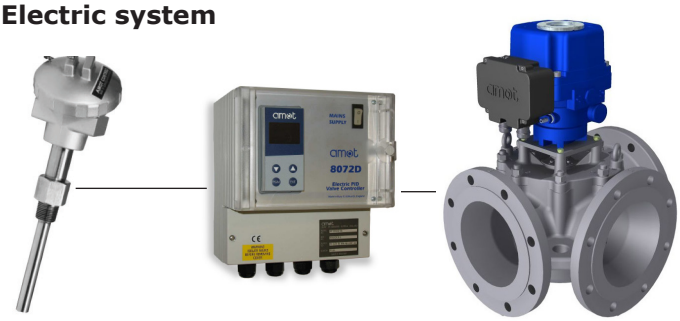
- Designed for temperature reads in harsh environments
- For use with the AMOT 8071D/8072D Electric PID Valve Controller and other PT100 applications
- Recommended temperature sensor for AMOT electric G Valve system

Key features and benefits

- NEMA 6 connection head - for harsh environments
- Range -100 to 250 °C (-145 to 480 °F)
- 3 wire RTDs - accurate temperature measurement
- Excellent long term stability and linearity
- Stainless steel well - suitable for a wide variety of applications

Operation

Electric system



Temperature Probe 8060 | **Temperature Controller 8071/2D, IP67 enclosure** | **Electric G Valve**

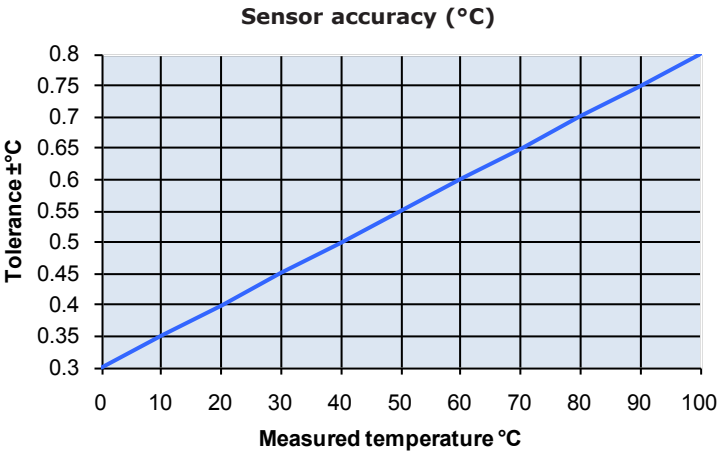
The electric valve system incorporates the use of an electrically actuated three-way control valve with an electronic controller (type 8071D). The 8071D controller can be either panel or wall mounted. The system is completed with the temperature sensor type 8060.

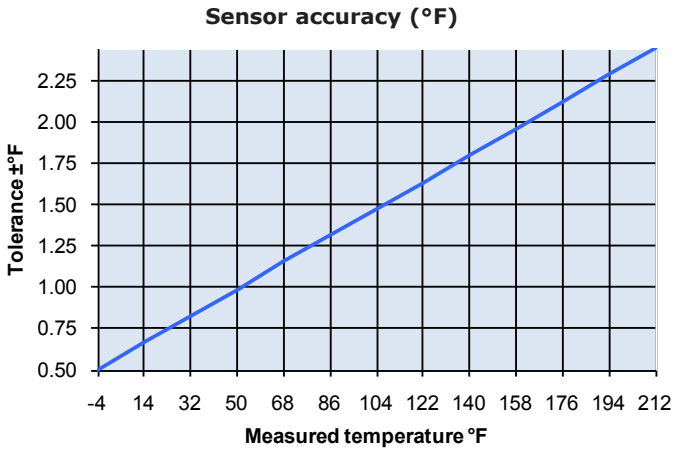
The electric G Valve system is simple to install with standard four core cable, and provides more accurate measurement and control than typical pneumatically operated systems.

Specification

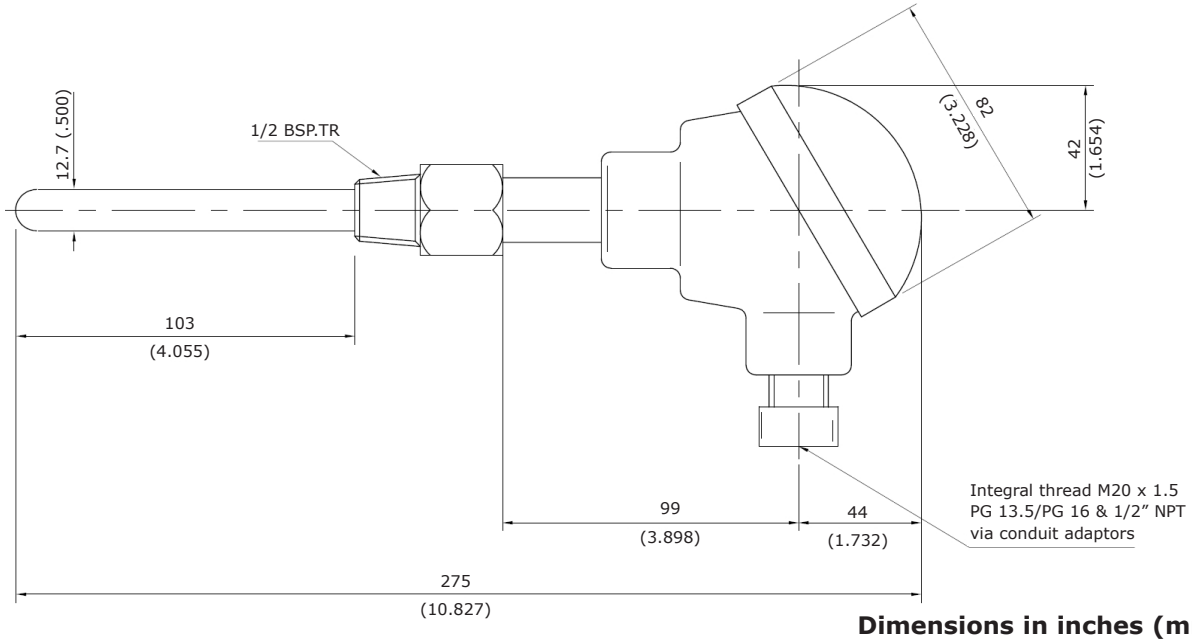
Temperature range	-100°C to 250°C	-150°F to 482°F
Accuracy	IEC 751 : 1983	(BS EN60751 : 1996) Class B
RTD	3 wire platinum	(100 Ohm element)
Connection head	Heavy duty aluminum	IP67
Conduit thread	M20, PG 13.5” or 16”, 1/2” NPT	
Thermal well	Stainless steel	
Installation thread	1/2” BPS. Tr, 1/2” NPT	
Terminations	Threaded	
Cable entry (3 core)	4 to 7 mm diameter	2 to 6 gauge
Heat transfer compound	Silicon	

Temperature Measurement Accuracy





Dimensions



Dimensions in inches (mm)

Installation Factors

Any temperature control system requires accurate measurement for optimum performance:

- Ensure probe is immersed in centre of flow
- Ensure probe is installed a minimum of 6 x pipe diameter from a junction or flow disturbance
- Always use heat transfer compound in thermal well
- Always install as close as possible to position where temperature control is required

How to order

Use the tables below to select the unique specification of your 8060A sensor

Example code	8060A	1	2	-AA	Code Description
Model & revision level					**Model & revision level**
	8060A				3-Wire PT100 Converter
Conduit threads					Conduit threads
		1			M20
		2			PG 13.5"
		3			PG 16"
		4			1/2" NPT
Installation threads					Installation threads
			2		1/2" BSP.Tr
			3		1/2" NPT
Customer special options					Customer special options
				-AA	Standard product
				-**	Customer special code assigned

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