JOHNSON CONTROLS

Controls Group 507 E. Michigan Street
P.O. Box 423, Milwaukee, WI 53202
Code No. LIT-1922235

TE-6100 Series

Completed Sensor/Hardware Assemblies

TE-6100-2

TE-6100-12

Applications

- control or indication of high-temperature steam using well-insertion assemblies in hot water pipes or tanks.
- temperature-averaging
- duct-insertion for controlling cycling in areas of sudden, large temperature changes

Features

- complete sensor package
- a wide range of nickel wire tolerance characteristics

Repair Parts

All TE-6100 hardware assemblies require replacing the entire unit.

To Order

Specify the code number from the following selection chart.

Description

TE-6100 completed assemblies are used in a wide variety of temperature sensing applications. In addition to these completed units, there are various other sensing elements and hardware configurations that can be field-assembled, depending on the application.

Refer to *TE-6000 Series Temperature Sensing Elements* for available temperature sensing elements and *TE-6001 Series Hardware Assemblies for TE-6000 Sensors* for available hardware configurations.

Selection Chart

Code Number	Type	Description
TE-6100-1	Nickel	17-ft averaging, temperature sensing element (1,000 ohm, 1%) with handi-box
TE-6100-2		Same as TE-6100-1 except that is has 8 ft averaging element
TE-6100-3		Temperature sensing elements (1,000 ohms, 1%), dual-wound with handi-box
TE-6100-4		High-temperature (550°F) well insertion element (1,000 ohms, 1%)
TE-6100-8		Room temperature sensing element (1,000 ohms, 1%) with setpoint (55-85°F), without cover
TE-6100-11		Nickel sensor room-sensing element with phone jack, without cover
TE-6100-12		Same as TE-6100-11 except with setpoint, without cover
TE-6100-960	Silicon	Base room thermostat with setpoint, without cover
TE-6100-961		Space temperature assembly with wall plate adaptor and mounting bracket
TE-6100-962		Duct-temperature sensor assembly, averaging type

Accessories

Code Number		Description	
WZ-1000-4		Stainless steel immersion well for use with TE-6100-4	
TE-6001-961		Pushbutton switch for use with TE-6100-960, -961, -12, -11	
TE-6001-962		Toggle switch for use with TE-6100-960, -961, -12, -11	
TE-1800-9600		Electrical wall box mounting adapter kit includes wallplate adapter, mounting bracket, and screws	
Aluminum Faceplate	**Gold and Brown Face-plate**	Plastic cover	
T-4000-2139	**T-4000-2639**	Horizontal	Without setpoint window or thermometer, with JCI logo
T-4000-2140	**T-4000-2640**		Without setpoint window, with °F/°C thermometer and JCI logo
T-4000-2141	**--**		Exposed setpoint, without thermometer, with JCI logo
T-4000-2142	**T-4000-2642**		Exposed setpoint, with °F/°C thermometer and JCI logo
T-4000-2138	**--**	Horizontal or Vertical	Without setpoint window, thermometer, or JCI logo
T-4000-2144	**T-4000-2644**	Vertical	Without setpoint window or thermometer, with JCI logo
T-4000-2145	**T-4000-2645**		Exposed setpoint, without thermometer, with JCI logo
T-4000-2146	**--**		Exposed setpoint, with °F/°C thermometer and JCI logo

TE-6100 Series Completed Sensor/Hardware Assemblies (Continued)

Specifications

TE-6100 Series Completed Sensor/Hardware Assemblies		
Models		See selection chart
Elements	**TE-6100-1 through -8**	Nickel wire resistance type
	TE-6100-960, -961, -962	PTC Silicon
Reference Resistances	**TE-6100-1 through -8**	1,000 ohms at 70°F (21°C)
	TE-6100-10	1,000 ohms at 70°F (21°C), 50% RH
	TE-6100-960, -961, -962	1,035 ohms at 77°F (25°C)
Temperature Coefficient	**TE-6100-1 through -8**	Positive, approximately 3 ohms/°F (5.4 ohms/°C)
	TE-6100-960, -961, -962	Positive, approximately 4.3 ohms/°F (7.7 ohms/°C)
Resistance Tolerances	**TE-6100-1, -2, -8**	±1.0% at 70°F (21°C)
	TE-6100-3	±1.0% at 70°F (21°C)
	TE-6100-5	±1.0% at 70°F (21°C)
	TE-6100-960, -961, -962	±0.05% -0.15 at 77°F (25°C)
Ambient Operating Environment	**TE-6100-1, -2, -3**	-50 to 250°F (-46 to 121°C)
	TE-6100-4, -5	Up to 550°F (288°C)
	TE-6100-8	0 to 130°F (-18 to 54°C), 10 to 90% RH, non-condensing
	TE-6100-960, -961	32 to 104°F (0 to 40°C), 10 to 90% RH, non-condensing, limited by an 85°F (29°C) maximum dew point
	TE-6100-962	-40 to 216°F (-40 to 102°C)
Set Point Range	**TE-6100-8**	55 to 85°F (13 to 29°C), °F and °C scales furnished
	TE-6100-960	50 to 85°F (10 to 29°C), °F and °C scales furnished