

Electronic Products

TT-RTD-LP Series PT100 Transducers



Type			TT-RTD-LP (-50 .. 100)	TT-RTD-LP (0 .. 100)	TT-RTD-LP (0 .. 150)
Definiton			Non-Isolated PT100 Transducer	Non-Isolated PT100 Transducer	Non-Isolated PT100 Transducer
Order Number			603860	603861	603862
Casing Width(mm)			17,5	17,5	17,5
Connections			Screw terminal	Screw terminal	Screw terminal
Input	Sensor Type		PT100	PT100	PT100
	Connection Method		2 wire or 3 wire	2 wire or 3 wire	2 wire or 3 wire
	Temperature Measuring Range		-50°C .. 100°C	0°C .. 100 °C	0°C .. 150 °C
	Sensor excitation current		<0.6mA	<0.6mA	<0.6mA
Output	Output Signal		4-20mA	4-20mA	4-20mA
	Linear output range		3.6mA .. 23.6mA	3.6mA .. 23.6mA	3.6mA .. 23.6mA
	Max. Load		≤ 750Ω	≤ 750Ω	≤ 750Ω
	Ripple		< 20 mVPP (at 750 Ω)	< 20 mVPP (at 750 Ω)	< 20 mVPP (at 750 Ω)
Supply	Voltage	AC	-	-	-
		DC	10-30V	10-30V	10-30V
Isolation			-	-	-
Measurement error			< %0.1 Full scale	< %0.1 Full scale	< %0.1 Full scale
Temperature coeff icient			≤ %0.02/°C	≤ %0.02/°C	≤ %0.02/°C
Response Time			< 20ms	< 20ms	< 20ms
Sensor failure indication			3.1mA (1 wire is broken), 24.6mA (at least 2 wire is broken)	3.1mA (1 wire is broken), 24.6mA (at least 2 wire is broken)	3.1mA (1 wire is broken), 24.6mA (at least 2 wire is broken)
Permissible ambient temperature		During operation	-20 to +60 °C	-20 to +60 °C	-20 to +60 °C
		During storage	-40 to +75 °C	-40 to +75 °C	-40 to +75 °C
Relative Humidity			Max.95% (no condensation)	Max.95% (no condensation)	Max.95% (no condensation)
Degree of protection			IP20	IP20	IP20
Weight(gr)			42	42	42
Permissible mounting position			any	any	any
Type			TT-RTD-LP (-50 .. 100)	TT-RTD-LP (0 .. 100)	TT-RTD-LP (0 .. 150)

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TT-RTD-LP (0 .. 200)	TT-RTD-LP (0 .. 300)	TT-RTD-LP (-50 .. 150)	TT-RTD-LP (-50 .. 200)	TT-RTD-LP (0 .. 500)
Non-Isolated PT100 Transducer	Non-Isolated PT100 Transducer	Non-Isolated PT100 Transducer	Non-Isolated PT100 Transducer	Non-Isolated PT100 Transducer
603863	603864	603865	603866	603867
17,5	17,5	17,5	17,5	17,5
Screw terminal	Screw terminal	Screw terminal	Screw terminal	Screw terminal
PT100	PT100	PT100	PT100	PT100
2 wire or 3 wire	2 wire or 3 wire	2 wire or 3 wire	2 wire or 3 wire	2 wire or 3 wire
0°C .. 200 °C	0°C .. 300 °C	-50°C .. 150°C	-50°C .. 200°C	0°C .. 500°C
<0.6mA	<0.6mA	<0.6mA	<0.6mA	<0.6mA
4-20mA	4-20mA	4-20mA	4-20mA	4-20mA
3.6mA .. 23.6mA	3.6mA .. 23.6mA	3.6mA .. 23.6mA	3.6mA .. 23.6mA	3.6mA .. 23.6mA
≤ 750Ω	≤ 750Ω	≤ 750Ω	≤ 750Ω	≤ 750Ω
< 20 mVPP (at 750 Ω)	< 20 mVPP (at 750 Ω)	< 20 mVPP (at 750 Ω)	< 20 mVPP (at 750 Ω)	< 20 mVPP (at 750 Ω)
-	-	-	-	-
10-30V	10-30V	10-30V	10-30V	10-30V
-	-	-	-	-
< %0.1 Full scale	< %0.1 Full scale	< %0.1 Full scale	< %0.1 Full scale	< %0.1 Full scale
≤ %0.02/°C	≤ %0.02/°C	≤ %0.02/°C	≤ %0.02/°C	≤ %0.02/°C
< 20ms	< 20ms	< 20ms	< 20ms	< 20ms
3.1mA (1 wire is broken), 24.6mA (at least 2 wire is broken)	3.1mA (1 wire is broken), 24.6mA (at least 2 wire is broken)	3.1mA (1 wire is broken), 24.6mA (at least 2 wire is broken)	3.1mA (1 wire is broken), 24.6mA (at least 2 wire is broken)	3.1mA (1 wire is broken), 24.6mA (at least 2 wire is broken)
-20 to +60 °C	-20 to +60 °C	-20 to +60 °C	-20 to +60 °C	-20 to +60 °C
-40 to +75 °C	-40 to +75 °C	-40 to +75 °C	-40 to +75 °C	-40 to +75 °C
Max.95% (no condensation)	Max.95% (no condensation)	Max.95% (no condensation)	Max.95% (no condensation)	Max.95% (no condensation)
IP20	IP20	IP20	IP20	IP20
42	42	42	42	42
any	any	any	any	any
TT-RTD-LP (0 .. 200)	TT-RTD-LP (0 .. 300)	TT-RTD-LP (-50 .. 150)	TT-RTD-LP (-50 .. 200)	TT-RTD-LP (0 .. 500)