

Wahl

INSTRUMENTS, INC.

NEW! DST610 • DST611 • DST620 • DST621 Digital Thermometers with 2 Independent RTD's

Four **NEW!** models of the **Wahl DST600 Series RTD Thermometer** are now available with 2 Independent RTD's for use with a controller or chart recorder.

Direct Access RTD Output

- **DST610** - DST600 meter mounted in a dual port enclosure with a second RTD wired to an internal terminal block.

Users access the isolated second RTD via a 1/2" NPT Female connector. User connection can be 2, 3, or 4 wire.

- **DST611** - DST600 meter mounted in a dual port enclosure with a second RTD wired to an internal terminal block.

A Turck 4 pin connector is provided on the second port for watertight access. A mating connector or cable assembly (available from Wahl) is used to provide access to the second RTD. User connection can be 2, 3, or 4 wire.

4-20mA Transmitter Output

- **DST620** - DST600 meter mounted in a dual port enclosure with a second RTD wired to an internal 4-20mA programmable transmitter.

Users access the 4-20mA transmitter via a 1/2" NPT Female connector.

- **DST621** - DST600 meter mounted in a dual port enclosure with a second RTD wired to an internal 4-20mA programmable transmitter.

A Turck 4-pin connector is provided on the second port for watertight access. A mating connector or cable assembly (available from Wahl) is used to provide access to the 4-20mA transmitter.



Wahl DST600 Series thermometer system being tested in the calibration lab of a major food processor, against two certified references.



ISO 9001:2008
CERTIFIED QUALITY
MANAGEMENT SYSTEM

For ordering assistance for all DST600 Series Meters
please call Customer Service at 1-800-421-2853

Register your product at www.palmerwahl.com/register

PALMER Wahl
INSTRUMENTATION GROUP

Continued Innovation Since 1836
ISO9001:2008 CERTIFIED

DST610 • DST620 Series Meter Specifications

Model	DST610	DST611	DST620	DST621
	RTD Meter with Local Display and Isolated Second RTD Sensor			
Isolated Secondary Sensor	Internal Terminal Block		4-20mA Transmitter	
	1/2" NPT Female Connector	Turck 4 pin Connector	1/2" NPT Female Connector	Turck 4 pin Connector
DISPLAY SPECIFICATIONS				
Meter Range / Scale	-50° to 500°F (-45.5° to 260°C) / User Selectable for °F or °C			
Meter Accuracy	± 0.1°F/C, over 1-year period (@ Tamb = 23°C ± 5°C)			
Meter and Probe Accuracy	Temp ≤ 300°F (148.8°C) = ± 0.3°F (± 0.2°C), Temp > 300°F (148.8°C) = ± 0.25% of reading			
Display	1.0" 4-digit LCD display with icons for °F, °C and Low Battery, Readable up to 30 ft.			
Display Resolution	0.1°F/C			
Sample/Display Rate	2 seconds standard, adjustable in .25 second intervals from .25 to 10 seconds			
Ambient Operating Environment	-40° to 158°F (-40° to 70°C) 10% to 100% RH non-condensing			
Ambient Temperature Coefficient	Maximum of 0.003%/°C over Ambient Operating Temperature Range from 23°C ± 5°C			
Sensor/Probe	<ul style="list-style-type: none"> • Sensor - 4-wire RTD, R0 = 100Ω, Alpha = 0.00385 Ω/Ω/°C w/ serial ID chip • Remote Probes (IP68 connection system) • Rigid Stem Probes • 304 or 316L Stainless Steel Probe • Sanitary Fittings (3A Sanitary Std 74-06) • Adjustable Angle Stem Probes • Models 610, 611, 620, 621 - 3/8" & 1/2" OD Shank & Tapered Bulbs only 			
Sensor Cables	PVC insulation, shielded, 105°C rating			
Power	One Lithium Thionyl Chloride "C" Battery, User Replaceable			
Battery Life	2 years nominal at 2 second update interval			
SECONDARY RTD SPECIFICATIONS				
RO	100 ohms per DIN EN 60751		100 ohms per DIN EN 60751	
Accuracy	Class A per DIN EN 60751		Class A per DIN EN 60751	
Temperature Coefficient	TCR = 3850 ppm/k		TCR = 3850 ppm/k	
Connection	Factory wired for 4-wire, user selectable 2, 3 or 4 wire		4-wire	
Self-Heating	0.4 K/mW at 0°C		NA	NA
Measuring Current	0.3 to 1.0 mA, self-heating must be considered		NA	NA
Terminal Block Type	Euro Style		NA	NA
Maximum Wire Size	10 AWG		NA	NA
TRANSMITTER SPECIFICATIONS				
Programming	NA	NA	PC Programming*	
Power Supply Requirements	NA	NA	10 to 35 Volts DC	
Range	NA	NA	-58° to 500°F (-50° to 260°C)	
Accuracy	NA	NA	Greater of 0.1°C or 0.05% of input span	
Fault Monitoring	NA	NA	Programmable High (> 21.6 mA), Programmable Low (< 3.5 mA)	
Enclosure	Stainless Steel & Polycarbonate (NEMA 4X)			
Dimensions/Weight	5.3" W x 4.3" H x 2.7" D (13.5 x 10.9 x 6.9 cm) / 2 lbs. (1kg)			

*Factory Programmable or optional Cable required. Specifications subject to change without notice.