

# Temperature Meter/Tester

## Handheld Multi-channel Data Recorder (Temp. / Voltage / Current/ Resistance) TT-3600 Series

### Product description:

The new generation handheld recorder series is designed to test the parameters you need to record in the process voltage test sensor test (0-100V), temperature test (thermocouple, Pt100-Pt1000), current test (optional shunt), resistance test, count, frequency. You can visually observe the test results (graphics and numerical values) and store the test results in the recorder's internal solid-state 1TB hard drive or USB, and you can use the license-free Tessio Lab software for data transfer and processing on the computer.

### Features

- ◆ 16-bit resolution, 10" TFT panoramic touch screen
- ◆ Maximum 1ms sampling speed per channel and up to 96 analog channels
- ◆ 1kHz bandwidth
- ◆ 1TB built-in solid state drive
- ◆ Universal input: voltage, thermocouple, thermal resistance, current (optional adapter required), resistance and NTC.
- ◆ Voltage: 0.01mV~100V (directly input ±100V)
- ◆ Temperature: Thermocouple (all types), Pt100/Pt1000 (3-wire or 4-wire)
- ◆ Abundant communication interfaces are USB, Ethernet, serial port WiFi
- ◆ Built-in Lithium battery: 8h standby
- ◆ Tessio Lab software (license-free)

### Ordering Informations

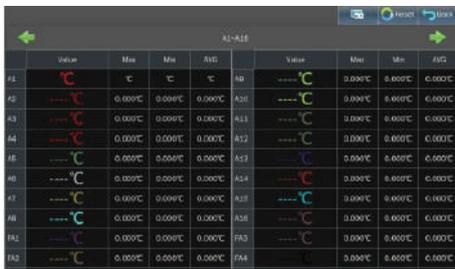
**TT-3624 ~ 96** : Multi-channel Data Recorder (Voltage, Thermocouple, RTD, Current, Resistance and NTC)

Function	TT-3624	TT-3648	TT-3672	TT-3696
Analog channel	24CH (Two-wire) 12CH (Three-wire/Four-wire)	48CH (two-wire) 24CH (Three-wire/Four-wire)	72CH (Two-wire) 36CH (Three-wire/Four-wire)	96CH (Two-wire) 48CH (Three-wire/Four-wire)
Logical Channel (12channels)	Optional	Optional	Optional	Optional
Output Function (12Channels)	Optional	Optional	Optional	Optional
Power Analysis of Single-phase Motors and 3-phase systems	Optional	Optional	Optional	Optional
Function	TT360B-20		TT360B-40	
10ms parallel smapling	20CH		40CH	

### Typical Applications



Comprehensive Interface



Digital Interface



Curve setting interface



Curve display interface



Function setting interface



Sample rate selection



TT-3600 series



Rear panel

### Standard Accessories :

- User Manual
- Adapter
- Stylus
- Communication cable
- 25 pin male connector
- Tessio Lab software

Specifications

Model		TT-3600 series		
Input mode		Photorelay scanning mode, all-channel isolated input, balanced input		
Mode input terminal shape		Plug-in terminals		
Measuring parameter		Temperature, humidity, pressure, flow, gravity, heat flow, wind, etc.		
Measuring Range	Voltage	0.01mV ~ 100.00V F.S. resolution : 10μV		
	Thermal Resistor	Type : PT100, PT1000		
	Thermocouple	Type : K, J, E, T, R, S, B, N		
	Current	0.001mA ~ 20mA, resolution : 1μA		
	Resistance	0.0001Ω~9.99MΩ (customized 10Ω~100MΩ)		
	NTC	5kΩ~500kΩ		
Digital Filter		Off, 2, 5, 10, 20, 40 (smooth filter)		
Sampling Rate		1ms -1h		
A/D Converter		Method: ΔΣ method, 24 Bit (effective resolution: about ±1/40000 in the range)		
Measurement Accuracy	Voltage	0~1600mV ±0.1% rdg +0.1% F.S.		
		0~100V ±0.1% rdg +0.1% F.S.		
	Temperature (thermocouple)	Types	Measuring Temperature range	Measurement Accuracy
		(TS : Measuring temperature)		
		R	0≤TS≤100°C	±5.2°C
			100<TS≤300°C	±3.0°C
			300<TS≤1600°C	±(0.05% of rdg + 2.0°C)
		S	0≤TS≤100°C	±5.2°C
			100<TS≤300°C	±3.0°C
		B	300<TS≤17600°C	±(0.05% of rdg + 2.0°C)
			400≤TS≤600°C	±3.5°C
		K	600≤TS≤1820°C	±(0.05% of rdg + 2.0°C)
			-200<TS≤0°C	±(0.05% of rdg + 2.0°C)
		E	0°C<TS≤1370°C	±(0.5% of rdg + 1.0°C)
			-200<TS≤-100°C	±(0.05% of rdg + 2.0°C)
		T	-100<TS≤800°C	±(0.05% of rdg + 1.0°C)
			-200<TS≤-100°C	±(0.5% of rdg + 1.5°C)
		J	-100<TS≤400°C	±(0.1% of rdg + 0.5°C)
			-200<TS≤-100°C	±2.7°C
		N	-100<TS≤100°C	±1.7°C
100<TS≤1100°C			±(0.05% of rdg + 1.0°C)	
-200<TS≤0°C			±(0.1% of rdg + 2.0°C)	
	0<TS≤1300°C	±(0.1% of rdg + 1.0°C)		
Standard Contact Compensation Accuracy		±0.5%		
	PT100	-100<TS≤100°C	± 0.2°C (4 wire accuracy can be customized)	
	PT1000	-100<TS≤100°C	±0.15%	
	Current	0.001mA ~ 20.0mA	±0.1% rdg +0.1% F.S.	
Note: When measuring thermocouples, sensor error must also be included.				
Max. Input Voltage	Between input terminals +/-	-100V ~ 100V: p-p		
	Between channel (I-I)/(-I)	60Vp-p		
	Between input terminal/GND	60Vp-p		
Max. voltage (withstand voltage)	Between channel	350Vp-p( within 1 minute)		
	Between input terminal/GND	350Vp-p( within 1 minute)		
Alarm Output	Quantity	12 alarms (A,B,C,D)		
	Output level	0 ~ 12V		
Trigger	5	Rising edge, falling edge, rising or falling edge, high level, low level		
Note: When measuring thermocouples, sensor error must also be included.				
Internal Storage	1TB, 512GB, and 256GB internal solid-state drives (configured by channel count)			
USB interface	4			
Ethernet	Twisted pair of RJ45			
Wifi	Built-in Wifi module can be connected to Tessio cloud platform			
Display	10 inch TFT LCD touch screen, backlight, 1024*600			
Power supply	10V/4A max, with main adapter (100/240VAC)			
Battery	Factory option, non-removable, lithium battery			
Battery Standby	15 hours in standby mode, 10 hours in non-standby mode			
Operating Temp.	-15°C ~ 45°C, 80% RH(no condensation)			
Storage Temp.	-20°C ~ 60°C			
Safety	CAT I 100V, in accordance with IEC61010-1			
Dimension (W*H*D)	210mm*295mm*105mm			
Weight	2.5kg			