

BS600 Series--Multi-channel Industrial Digital Temperature Logger



BS615



Single Channel

BS625



Dual Channel

BS645



Quad Channel

Display "BAT", when the voltage of batteries is low.

IP67

Immersion 30minutes and dust proof

DESCRIPTION

The 600 series EasyCal™ Digital Temperature Logger is microprocessor-based, digital **industrial grade multi-channel** thermometer designed to use external **K-,J-,E-,and T-type** thermocouples (temperature probes) as temperature sensors. The series thermometer **response quickly and have industrial accuracy (0.1 % + 0.5 °C), logging and PC USB interface capabilities** with powerful Windows® software CD. You can calibrate the thermometer using the MENU key while it powered off. The thermocouple with wire spool can be **stored in the back** of the thermometer.

Distinctive Innovation

The portable design and humanization front panel is convenient to set up, operate and measure for user. You can open the cover and replace batteries conveniently without damaging calibration seal. Also have **waterproof, dustproof shell and shock-protected** rubber casing, groove in the back used to place the thermometer with wire spool.

Live clock and inside temperature display.

With minimum, max and average of the relative time base, supply time reference for main event.

Quick offset for temperature

Compensate for thermocouple errors to increase the accuracy.

Multiple units

Select °C, °F, or K as units according to requirement.

Low battery indicator

Please replace the batteries as soon as possible for accurate data.

Data recording

Recording up to 9999 locations and recording interval is adjustable.

Single input industrial Digital Temperature logger [615]

Dual input industrial Digital Temperature logger [625]

Quad input dual display industrial Digital Temperature logger [645]

BS600 Series--Multi-channel Industrial Digital Temperature Logger



USB
Connectivity

Features:

- CE certification
- User friend front panel, convenient to set up and operate.
- With J, K, T and E- type thermocouples up to 4 channels.
- Selectable units of °C, °F, or K (Kelvin)
- Data logging up to 9999 points of data with user adjustable recording interval.
- Recall function allow logged data to be easily review on the meter display
- Record max, min and average reading.
- Self rapid temperature compensation function
- Data hold function
- Auto power off, 2 x 1.5 AAA LR03, about 300 hours
- Live clock and inside temperature display
- Thermocouple storage on back panel.
- Open the cover and replace batteries in battery compartment conveniently without damaging calibration seal.
- USB serial port connectivity.
- Windows compatible software CD and USB for data analysis and graphic porting.
- Waterproof (immersed 30min) and dustproof: according to IEC 60529 IP67 standard.



Thermocouple storage

Standard accessories

- batteries, 2 x 1.5V LR03(AAA) (BT3)
- TP6K K-type thermocouple
- USB interface software (WS600)
- USB wire (USBC600)

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Specification	615	625	645
Measurement Range	J-type : -210 °C to +1200 °C (-346 °F to +2192 °F) K-type : -200 °C to +1370 °C (-328 °F to +2498 °F) T-type : -250 °C to +400 °C (-418 °F to +752 °F) E-type : -150 °C to +1000 °C (-238 °F to +1832 °F)		
Display Resolution	J-type : 0.1 °C / K < 550 ° 0.1 °F < 1000 ° 1.0 °C / K ≥ 550 ° 1.0 °F ≥ 1000 ° K-type : 0.1 °C / K < 750 ° 0.1 °F < 1000 ° 1.0 °C / K ≥ 750 ° 1.0 °F ≥ 1000 ° T-type : 0.1 °C / K / °F ° E-type : 0.1 °C / K < 400 ° 0.1 °F < 750 ° 1.0 °C / K ≥ 400 ° 1.0 °F ≥ 750 °		
Measurement Accuracy	J, K, T, and E-type: ± [0.1 % + 0.5 °C (1.0 °F)] [Below -100 °C (-148 °F): add 0.2 % of reading for J, K, and E; and 0.5 % of reading for T-type]		
Temperature Coefficient	0.01 % of reading +0.05 °C per °C (0.1 °F per °F) for < +18 °C (+64 °F) or > +28 °C (+82 °F) [Below -100 °C (-148 °F): add 0.05 % of reading for J, K, and E; and 0.1 % of reading for T-type]		
Live Clock Tolerance	About 1s per day		
Temperature Scale	ITS-90 (International Temperature Scale of 1990)		
Applicable Standards	N.I.S.T. Monograph 175 revised to ITS-90		
Accuracy is specified for ambient temperatures between 18 °C (64 °F) and 28 °C (82 °F) for a period of 1 year. The above specifications do not include thermocouple error.			

Note: all the accuracy is the accuracy of 23°C±5°C, relative humidity <80%

TP6K K-Type Bead Thermocouple (a standard accessory)	
Type	K-Type Chromel Alumel ,bead style
Temperature Range	-40 °C to +480 °C (-40 °F to +900 °F)
Accuracy	±1.1°C (±2.0°F)

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Total Parameter		615	625	645
Environmental	Operating temperature	-10 °C to +50 °C (14 °F to 122 °F)		
	Storage Temperature	-40 °C to +60 °C (-40°F to 140 °F)		
	Humidity	Non condensing<10 °C(<50°F) 85%RH: 10 °C to 30 °C (50°F to 86 °F) 70%RH: 30 °C to 40 °C 86 °F to104 °F) 45%RH: 40 °C to 50 °C (104°F to 122 °F)		
	Altitude	Operating – up to 200m Storage – 10000m		
General	Dimension	18H x 9.4W x4.3Dcm (7.20in x 3.70in x 1.70in)		
	Weight	Approx.460g (16.2oz)		
	Battery	2 x LR03(AAA)type1.5V		
	Certification	CE		
	Safety	IEC 1010-1(2001), UL3111-1(6, 1994), EN 61010-1(2001),CSAC22.2 NO.1010.1(1992)		
	CAT 1	OVERVOLTAGE(installation)CATEGORY 1, Pollution Degree 2 per IEC1010-1		
	immersion(30 min) &Dust proof	IP67 according to IEC 60529		

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Due to our policy of continual product development we reserve the right to amend the specifications of all mentioned products without notice.

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