

SURFACE MOUNTING THERMAL SENSOR

NBCT100

NEW-FLOW's NBCT100 thermal sensor is measuring temperature for electric power safety, pressure pipe under water supply, air conditioner BTU, pipe of inlet and outlet, solar power energy, battery, small pipeline, sootblowing gas, hospital freezer, warehousing, soil, seawater, etc.

Features

- Operating Temperature: -20~120°C, -20~200°C and -30~250°C available
- Accuracy: DIN IEC751 Class A or B or C
- UL Approval and UL94HB Fireproof
- Fast measuring temperature, and 100% weather proof IP68
- Surface mounting, Easy installation, Chemical and bad environment resistance
- Stick steadily on the material of glass, metal or plastic, etc.
- Suitable for using on all kinds of metal, plastic and irregular surface.
ex. HVAC cooled chiller unit, high/low pressure fuse, voltage capacitor, steam pipe, solar panel, motor overheat, high voltage cable anomaly, overload with large UPS and VCB, etc.

Technical Data

Dimensions: specific size on request.

Type	Diameter
M	40 x 40 mm
MS	40 x 40 mm
O	55 x 55 mm
N	10 x 25 mm

Element Type: PT100Ω; Thermocouple K, J; Class A or B or C; and specific element on request.

Response Time: 200°C/2S (DIN IEC751)

Thermal Conductivity: 1.5W/mK (ASTM D547D)

Tearing Strength: 1501b/1n2 (ASTM D624)

Measuring Range: **A Class:** -30~250°C; **B Class:** -20~200°C; **C Class:** -20~120°C

Accuracy: Class A or B or C • 3850pm/°C, PT≤0.2°C (25°C), T/C≤0.5°C (25°C)

Safety Approval (PAD): UL94HB/UL746C (E54153/E65361)

Self-Adhesion Force: 1n2 1000 (100°C), 500 (150°C), 400 (200°C), 300 (250°C)(g)

Corrosion Resistance: Gasoline, Acetone, Cleaning solution, Middle ph solution, etc. (Splash testing)

Protection Class: Weather proof IP68 (CNS14165)

Insulation: 5KV / 14KV (customize)(ASTM D-149-91)

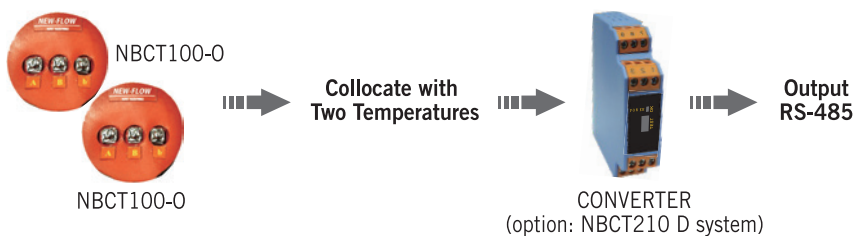
Installation: Self-Adhesive: -30°C~200°C; Silica Gel: up to 200°C

Wire: Teflon: -40°C~180°C; PVC: -20°C~105°C

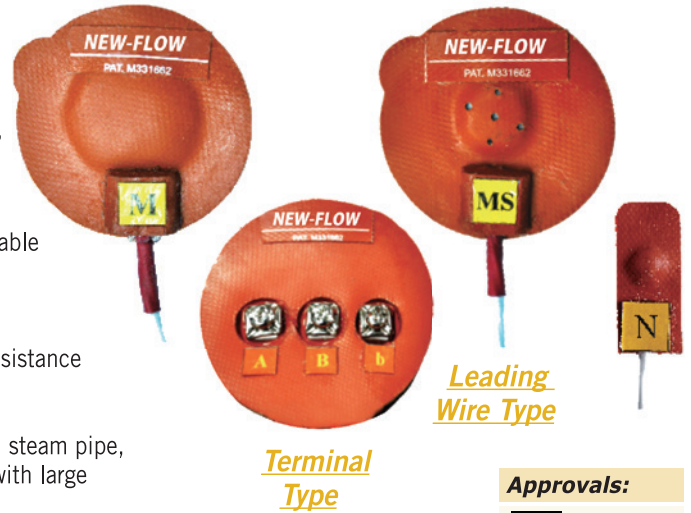
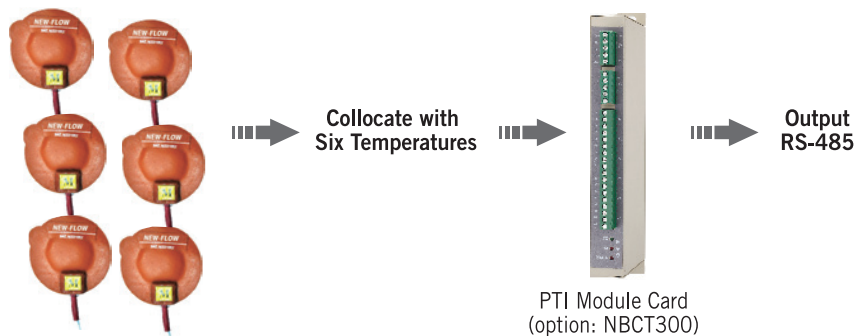
Optional Connector: Cylinder Diameter 17x80mm, IP68 UL94V0 or Hosuing Case 82 x 50 x 40mm, IP66 UL94V0

Economy Type

Terminal Type:



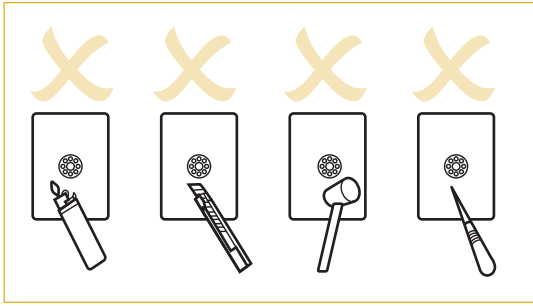
Leading Wire Type:



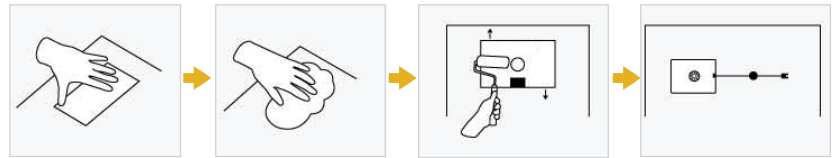
Approvals:



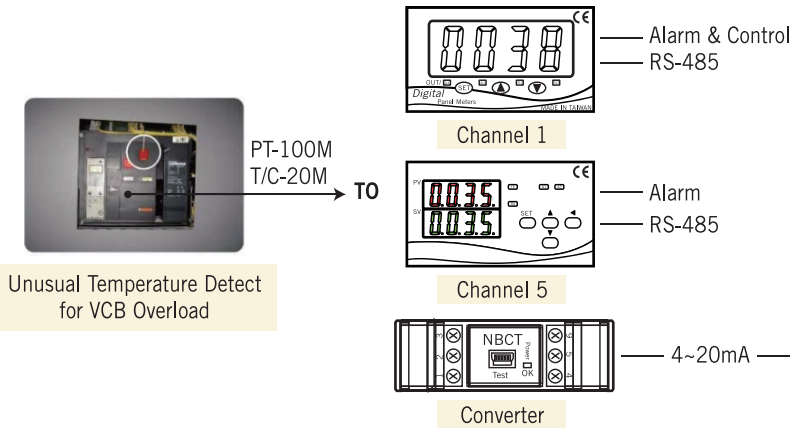
Operation Precautions



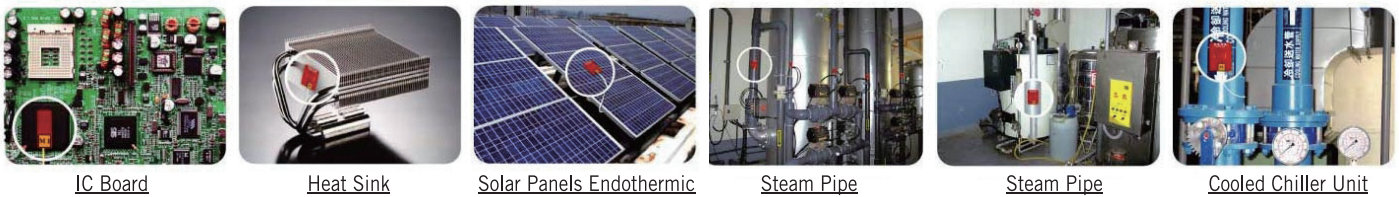
Adhesive Technology



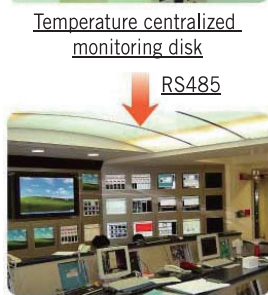
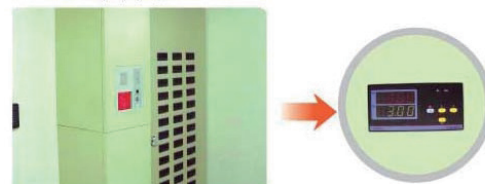
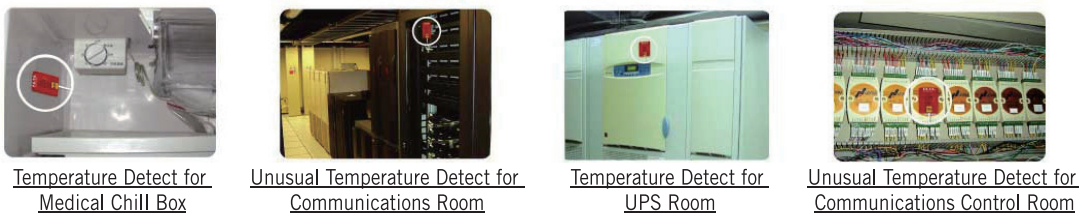
Unusual Temperature Detect for following:



Unusual Temperature Detect



Use Examples



Ordering Information

NBCT100	Code	Dimensions / Type				
	M	40 x 40 mm / Leading Wire Type				
	MS	40 x 40 mm / Leading Wire Type (for ambient temperature)				
	O	55 x 55 mm / Terminal Type				
	N	10 x 25 mm / Leading Wire Type				
	Code	Signal Output				
	P	PT100Ω	D	PT1000Ω	K	Thermocouple K type
	J	Thermocouple J type	T	Thermocouple T type	S	Specific
	Code	Class / Measuring Temperature (Accuracy: Class A or B or C • 3850pm/°C, PT≤0.2°C(25°C), T/C≤0.5°C(25°C))				
	A	-30~250°C (for model NBCT100-M or MS or N)				
	B	-20~200°C (for model NBCT100-M or MS or N)				
	C	-20~120°C (for model NBCT100-O only)				
	S	Specific				
	Code	Wire Length / Material				
	1	3M / Teflon Wire				
	2	3M / PVC Wire				
	3	Terminal Blocks (for model NBCT100-O only)				
	S	Specific				
	Code	Optional Connector Assembly				
	1	Terminal (for model NBCT-100-O only)				
	2	Junction Box				
	3	Connector				
	N	None				
NBCT100						Complete Ordering Code