PRESYS®

Temperature Calibrator
Dry Block Type
TA-100N



Ready for Industry 4.0
and DCC

HART COMMUNICATION PROTOCOL

PROFIBUS®

Reach an incredible -100 °C
with excellent control!

www.presys.com.br

- Input for RTD, thermocouples and thermoswitches.

- Internal regulated 24 Vdc power supply and mA input for 2-wire transmitters.

Display

Touchscreen display.
User-friendly, clear, and intuitive interface.

Certificate

Generates a Calibration Certificate.

- Completely automatic calibration with or without the use of a computer.



- Dry Block Calibrator offers the highest levels of thermal homogeneity and stability.

- External Probe Input. Inputs for reading TCs and RTDs.

- Supports HART® and Profibus protocols (optional).

- Unique range from -100 to 40 ºC.

- Ethernet, Wi-Fi via USB/Ethernet router adapter, serial USB with SCPI protocol.

CAL 0193

OCP 0004

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PROFIBUS

Technical Specifications
Model: TA-100N

Operating Range:	-100 ºC to 40 ºC
Display Accuracy:	± 0.1 °C full range
Resolution:	0.01 °C
Stability:	± 0.01 °C all range
Axial Uniformity (40 mm):	± 0.20 °C @ -90 °C ± 0.11 °C @ -30 °C ± 0.02 °C @ 40 °C
Radial Uniformity:	± 0.025 °C @ -90 °C ± 0.01 °C @ -30 °C ± 0.01 °C @ 40 °C
Heating Time:	10 min (25 °C to 40 °C)
Cooling Time:	60 min (25 °C to -90 °C) 80 min (25 °C to -100 °C)
Well Depth:	Insert depth: 150 mm Total depth with isolator: 230 mm
Insert Diameter:	Ø 35 mm
Weight:	12.0 kg
Dimensions (HxWxD):	500 x 229 x 350 mm
Power Supply:	115 or 230 Vca 50/60 Hz

(Specifications are defined as total typical error.)

Order Code

TA-100N - ☐ - IN ☐☐ - ☐☐ - ☐☐

Power Supply
1 - 115 Vac **2** - 230 Vac

Included Insert
Choose from those listed

Hart® Communication
NH - No Hart® Communication
CH - Hart® Calibrator (basic commands: zero, span, trim mA)
FH - Full-Hart® Configurator, with DD library from *FieldComm Group*.

Profibus® Communication
NP - No Profibus® Communication
PB - Profibus® PA Communication

Accessories

Inserts	Holes	Order Code
IN1P	1x 3.0 mm, 1x 6.0 mm, 1x 1/4" and 1x 8.0 mm	06.04.0206-00
IN1A	1x 1/8", 1x 3/16", 2x 1/4" and 1x 3/8"	06.04.0207-00
IN1E	1x 4.0 mm, 1x 6.0 mm, 1x 1/4", 1x 8.0 mm and 1x 10.0 mm	06.04.0208-00
IN01	1x 3/4"	06.04.0196-00
IN02	1x 1/2"	06.04.0197-00
IN03	1x 6.0 mm and 3x 1/4"	06.04.0198-00
IN04	3x 6.0 mm and 1x 1/4"	06.04.0199-00
IN05	4x 6.0 mm	06.04.0200-00
IN06	2x 6.0 mm and 2x 1/4"	06.04.0201-00
IN07	1x 6.0 mm, 1x 8.0 mm and 1x 3/8"	06.04.0202-00
IN08	1x 3.0 mm, 1x 6.0 mm and 2x 1/4"	06.04.0203-00
IN09	Without hole, to be drilled by the client	06.04.0204-00
IN10	Others, under ordering	06.04.0205-00

PRESYS
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ABNT NBR ISO/IEC 17025 CAL 0193
MANAGEMENT SYSTEM TÜVRheinland Brasil NBR ISO 9001 QUALITY
TÜVRheinland OCP 0004

EF0995-00

Due to our continuous development and improvement program, we reserve the right to enhance or modify features and designs without prior notice.