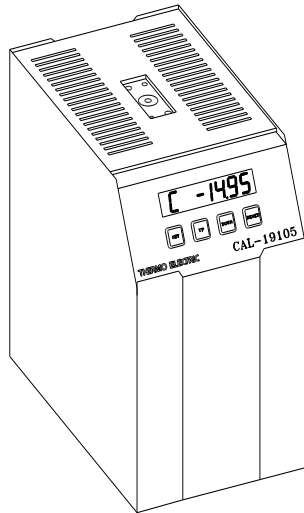


# DRY WELL CALIBRATOR

low temperature, -25 °C to +140 °C



## Features:

- Best accuracy in its class
- Front panel recalibration
- No external cooling needed
- Thermal switch test feature
- RS 232 serial interface
- Microprocessor based

## Applications:

For quick accurate testing of temperature sensors in laboratories, maintenance, repair or testing facilities.

## Specifications:

Model	: CAL-9105
Temperature range	: -25 °C to +140 °C (at ambient of 25 °C)
Display resolution	: 0,01 °C
Display	: LED, value and °C
Accuracy	: ± 0,05 °C with reference; ± 0,1 °C without reference at 0 °C ± 0,23 °C at -20 °C; ± 0,45 °C at 140 °C for center well
Stability	: ± 0,02 °C
Uniformity	: ± 0,05 °C (between drilled well), for inserted well ± 0,23 °C at -20 °C; ± 0,08 °C at 0 °C; ± 0,4523 °C at +140 °C
Controller operation	: see reverse side
Thermal switch	: start heating or cooling cycle
Insertion length	: 152 mm
Test well	: five drilled test wells; two of 6,4 mm holes, one of 3,2 mm hole, one of 4,8 mm hole and one test well insert (19,05 mm) with 6,5 mm inside diameter
Usage position	: vertical
Communication	: RS 232 standard supplied on the unit; IEEE interface possible as option
Heating/cooling rate	: takes only 8 minutes to reach any setting
Enclosure	: rugged aluminium
Dimensions	: 343 x 198 x 330 mm (H x W x D)
Power supply	: 220 V AC ± 15% (unless otherwise specified)
Weight	: 12 kg

## Ordering code:

CAL - 19105 -

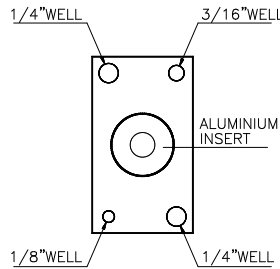
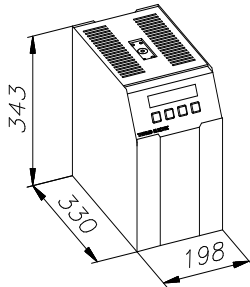
RS = with RS 232 serial comm.  
IE = with IEEE-488 comm.

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## Dimensions (in mm):



## Technical:

Controller operation : well temperature, reset cutout, temperature set point, temperature hold mode, ramp and soak programs, secondary menu, heater power, proportional band, cutout, temperature display hold, controller configuration, probe parameters menu, operating parameters, serial interface parameters, IEEE-488 parameters, calibration parameters

## Options:

- 19,05 mm outside diameter inserts. User specified insert. The standard size is machined larger than the given probe diameter to allow proper fitting. However when ordering custom inserts you must specify the exact diameter of your element. Holes will be drilled according list:

IMPERIAL		METRIC	
Probe size (")	Hole size (mm)	Probe size (mm)	Hole size (mm)
1/16	1,9	3,5	3,7
1/8	3,5	4,8	5,0
3/16	5,0	5,0	5,2
1/4	6,6	5,2	5,5
5/16	8,2	6,0	6,3
3/8	9,8	6,5	6,8
7/16	11,6	7,0	7,4
1/2	13,1	7,8	8,1
9/16	14,7	8,0	8,3
5/8	16,3	8,5	8,8
11/16	17,9	9,5	9,8
		12,7	13,0
		17,0	17,5

- large test well (instead of the 9-hole block) a 43 mm o.d. and 152 mm deep hole will be supplied.
- °F unit (-32 °F to +248 °F) with 0,01 °F resolution.
- IEEE 488 interface for computer controlled operation.
- Individual sensor calibration system, the CAL-9931, for thermocouples and RTD certification.
- RVA calibration instead of TE standard calibration

## Accessories:

- CAL-3191 : extremely durable carrying case, ideal for transport, when recalibration is required
- CAL-3197 / ... : blank insert / user specified insert with dimensions to be specified out of the list on rear page
- CAL-9930 : software package also usable for CAL-9122 and CAL-9123 to control the unit via a PC (needs windows 3.1 and IBM compatible PC with VGA screen)