



FLUKE®

Calibration

Industrial temperature calibration selection guide

Look inside for:

Field metrology wells

Infrared calibrators

Handheld and field dry-wells

Micro-baths

Environmental monitoring

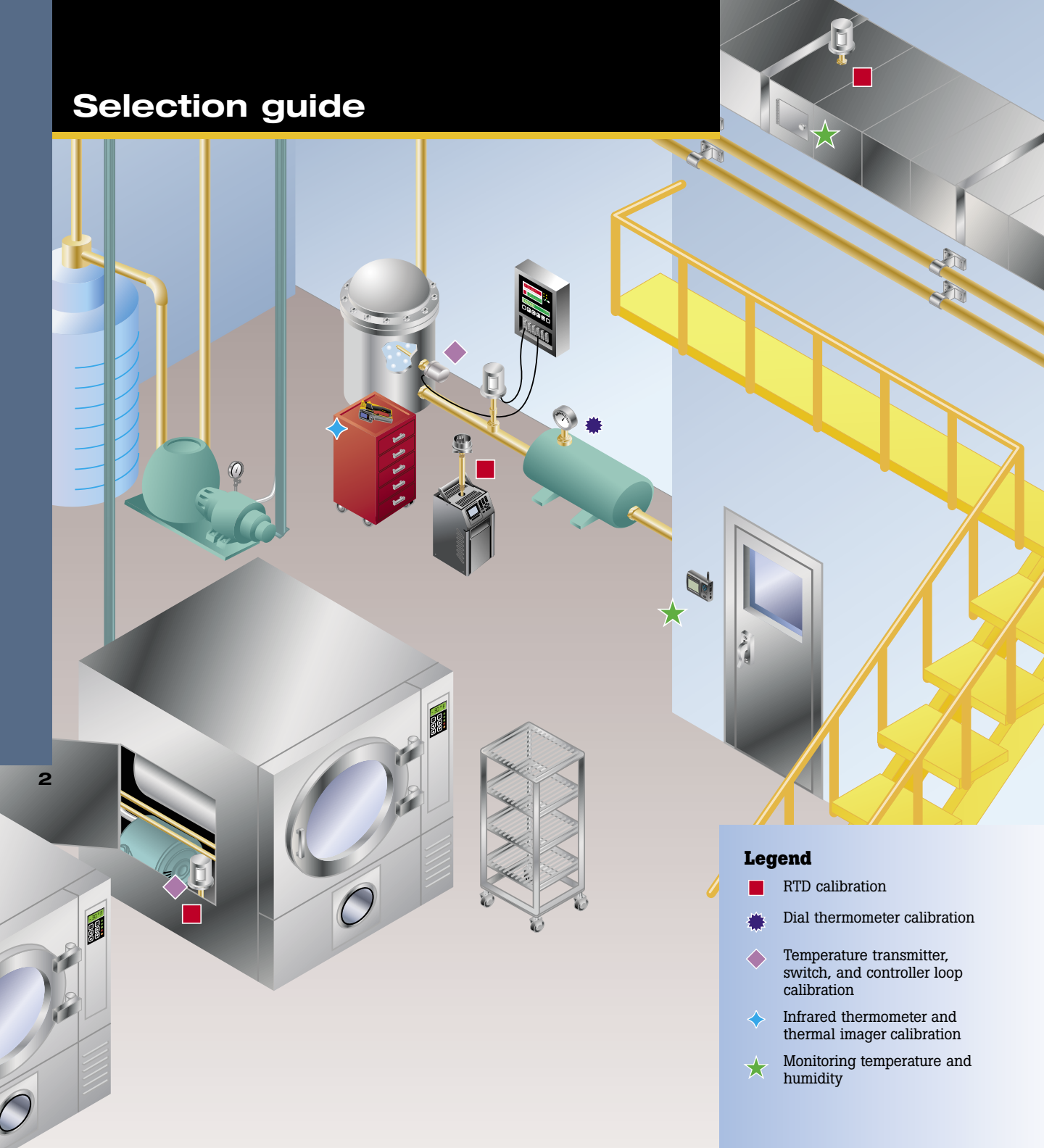
Thermometer readouts

Reference sensors

Temperature measurement and calibration

Tools for industrial instrumentation and calibration technicians

Selection guide



2

Legend

- RTD calibration
- ⚙ Dial thermometer calibration
- ◆ Temperature transmitter, switch, and controller loop calibration
- ⚡ Infrared thermometer and thermal imager calibration
- ★ Monitoring temperature and humidity

Selection guide

| | Field metrology wells | | | NEW! Precision infrared calibrators | | Handheld dry-wells | |
|---------------|-----------------------------|----------------------------|----------------------------|-------------------------------------|-----------------|--------------------|------------------|
| | | | | | | | |
| Model | 9142/9142P page 4 | 9143/9143P page 4 | 9144/9144P page 4 | 4180 page 6 | 4181 page 6 | 9100S page 8 | 9102S page 8 |
| Range | -25 °C to 150 °C 4-20 mA | 33 °C to 350 °C 4-20 mA | 50 °C to 660 °C 4-20 mA | -15 °C to 120 °C | 35 °C to 500 °C | 35 °C to 375 °C | -10 °C to 122 °C |
| Best accuracy | ± 0.2 °C | ± 0.2 °C | ± 0.35 °C | ± 0.35 °C | ± 0.35 °C | ± 0.25 °C | ± 0.25 °C |
| Applications | ◆ | ◆ | ◆ | ◆ | ◆ | ■ | ■ |

| | Field dry-wells | | | | | Sensors | |
|---------------|------------------|------------------|-----------------|-----------------|-------------------|-------------------|-----------------------|
| | | | | | | | |
| Model | 9009 page 9 | 9103 page 10 | 9140 page 10 | 9141 page 10 | 9150 page 10 | PRT page 15 | Thermistor page 15 |
| Range(s) | -15 °C to 350 °C | -25 °C to 140 °C | 35 °C to 350 °C | 50 °C to 650 °C | 150 °C to 1200 °C | -200 °C to 670 °C | 0 °C to 100 °C |
| Best accuracy | ± 0.2 °C | ± 0.25 °C | ± 0.5 °C | ± 0.5 °C | ± 5 °C | See pages 14-15 | See pages 14-15 |
| Applications | ■ ◆ | ■ ◆ | ■ ◆ | ■ ◆ | thermocouples | ◆ ■ ◆ | ◆ ■ ◆ |

| | Micro baths | | | Thermometer readouts and environmental monitoring | | | |
|---------------|-----------------|-----------------|------------------|---|----------------------|-------------------|----------------------------------|
| | | | | | | | |
| Model | 6102 page 11 | 7102 page 11 | 7103 page 11 | 1551A/1552A page 13 | 1523/1524 page 13 | 1529 page 14 | 1620A page 12 |
| Range | 35 °C to 200 °C | -5 °C to 125 °C | -30 °C to 125 °C | -200 °C to 300 °C | -200 °C to 2315 °C | -200 °C to 962 °C | 15 °C to 35 °C 20%RH to 70%RH |
| Best accuracy | ± 0.25 °C | ± 0.25 °C | ± 0.25 °C | ± 0.05 °C | ± 0.015 °C | ± 0.006 °C | ± 0.25 °C ± 2 %RH |
| Channels | n/a | n/a | n/a | n/a | 1 or 2 | 4 | 2 |
| Applications | ◆ | ◆ | ◆ | ■ ◆ | ◆ ◆ | ◆ ◆ | ★ |

Handheld dry-wells



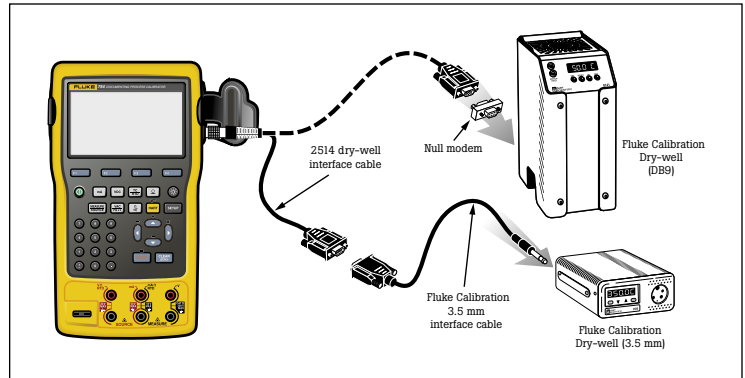
Temperature sensor calibration is easy with a handheld dry-well.

Fluke Calibration 9100S and 9102S Handheld Dry-Well Temperature Calibrators

- A temperature source that you can take anywhere
- Fast and easy calibrations of temperature sensors
- 9100S model weighs only 2 lbs, 3 oz (1 kilogram)
- Temperature ranges from $-10\text{ }^{\circ}\text{C}$ to $375\text{ }^{\circ}\text{C}$
- Stability during calibrations to $\pm 0.05\text{ }^{\circ}\text{C}$
- Direct interface to the Fluke 754 Documenting Process Calibrator

Each unit includes RS-232 interface, instrument control software and a NIST-traceable calibration.

Recommended accessories: carrying case, additional inserts, reference temperature sensor and indicator, battery pack

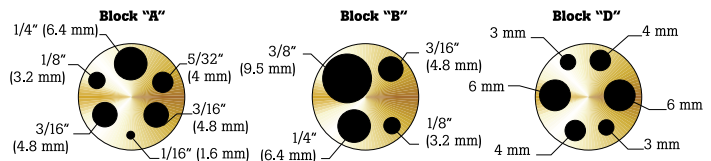


Easily connect a Fluke 754 to a dry-well for a fully automated temperature calibration that includes the temperature transmitter and temperature sensor.

Ordering information

- 9100S** Handheld Dry-Well
9300 Rugged Carrying Case, 9100
9102S Handheld Dry-Well, comes with your choice of two 3102 inserts
9308 Hard Carrying Case, 9102/9132
9320A Battery Pack, 115V (9102S run time: 4 hrs)
3102-1 Insert, AL 1/16 in (1.6 mm)
3102-2 Insert, AL 1/8 in (3.2 mm)
3102-3 Insert, AL 3/16 in (4.8 mm)
3102-4 Insert, AL 1/4 in (6.4 mm) (Standard)
3102-6 Insert, AL 3/8 in (9.5 mm) (Standard)
3102-7 Insert, AL 7/16 in (11.1 mm) (Standard)
3102-8 Insert, AL 5/32 in (4 mm) (Standard)
2514 Dry-well interface cable to Fluke 754 Insert. Specify "A", "B", "D"

9100 fixed-block options



Calibration and metrology training from Fluke Calibration can help you and your staff become more knowledgeable in a wide variety of disciplines. Instructors are experts who work in electrical, temperature, pressure and flow calibration, and who really want to help you learn the foundation and techniques of metrology that you can put to immediate use in your workplace. Fluke Calibration offers introductory, intermediate, and advanced level courses in a variety of formats to meet your needs.

Training Seminars in American Fork, Utah

www.flukecal.com/tempcal_training

Get real training from real experts that lays out the basics and builds up to more advanced material for more advanced learners.

- Principles of Temperature Metrology
- Advanced Topics in Temperature Metrology
- Infrared Temperature Metrology
- Temperature Calibration Product Training

Service

Some of the best service and lowest uncertainties are available in our primary and secondary calibration laboratories located in the US and Europe. We offer NVLAP accredited calibration services in the US and UKAS accredited calibration services are available in Europe. Don't forget to pay a visit to our calibration laboratory when you come for training.



Fluke Calibration. *Precision, performance, confidence.™*

| | | | | | |
|------------|----|-------------|----------|------|----------|
| Electrical | RF | Temperature | Pressure | Flow | Software |
|------------|----|-------------|----------|------|----------|

Fluke Calibration
PO Box 9090, Everett, WA 98206 U.S.A.

Fluke Europe B.V.
PO Box 1186, 5602 BD
Eindhoven, The Netherlands

For more information call:
In the U.S.A. (877) 355-3225 or
Fax (425) 446-5116
In Europe/M-East/Africa +31 (0) 40 2675 200 or
Fax +31 (0) 40 2675 222
In Canada (800)-36-FLUKE or
Fax (905) 890-6866

From other countries +1 (425) 446-5500 or
Fax +1 (425) 446-5116
Web access: <http://www.flukecal.com>

©2011 Fluke Corporation.
Specifications subject to change without notice.
Printed in U.S.A. 9/2011 3246833B C-EN
Pub. ID: 11336-ENG, Rev 02

**Modification of this document is not permitted
without written permission from Fluke Corporation.**

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Fluke:

[9100S-B-156](#) [9100S-D-156](#) [9100S-C-156](#) [9100S-A-156](#)