

TECHNICAL DATA

Fluke Calibration 9103/9140 Field Dry-Well



Key features

- Accuracy to $\pm 0.25^{\circ}\text{C}$ and comes with an RS-232 interface.
- The 9103 covers below-ambient temperatures as low as -25°C . The 9103 is stable to $\pm 0.02^{\circ}\text{C}$
- The 9140 has a temperature range of 35°C to 350°C . The 9140 has a stability of $\pm 0.05^{\circ}\text{C}$.
- Features designed with user convenience and productivity in mind.

Product overview: Fluke Calibration 9103/9140 Field Dry-Well

Portable, fast, and accurate temperature sources for on-site calibration

Exceptional Performance in a Compact Design

The Fluke 9103 and 9140 Field Dry-Well outperform the competition in nearly every category—**performance, size, weight, ease of use, calibration simplicity, software integration, and price.**

Each unit features:

- Adjustable **heating and cooling rates** via the front panel
- **Thermal switch actuation testing**
- **Multiple-hole inserts** for compatibility with a wide range of probe sizes

Fast Calibration with Minimal Downtime

- Units are **easy to calibrate** without opening the case, reducing maintenance costs and downtime
- All units include a **NIST-traceable calibration certificate at no additional charge**
- **Factory-tested** for accuracy and reliability before shipment

Software Integration

Fluke's Interface-it software supports:

- Set-point and ramp rate control
- Real-time temperature logging
- Electronic strip chart creation
- Thermal switch test automation with data collection
- Windows-based interface with intuitive graphical controls

Whether you need basic control or full automation, Fluke has a software solution ready.

Fluke 9103 – Low-Temperature Field Dry-Well

- **Temperature Range:** Down to -25°C (actual, not below ambient)
- **Stability:** $\pm 0.02^{\circ}\text{C}$
- **Display Accuracy:** $\pm 0.25^{\circ}\text{C}$ across full range
- **Speed:**
 - Reaches 0°C in 8 minutes
 - Reaches 100°C in 6 minutes

Key Advantage:

Many competitors advertise -45°C below ambient, which only reaches around -20°C . The 9103 delivers a **true -25°C** in standard room conditions—**no walk-in freezer required**.

Insert Options:

Choose from four removable inserts to suit your calibration needs:

- **Insert A:** One well each from $1/16''$ to $1/2''$
- **Insert B:** Two wells each of $3/8''$, $1/4''$, and $3/16''$ (ideal for comparison calibrations)
- **Insert C:** Six $1/4''$ wells for multiple probe calibrations
- **Insert D:** Three pairs of metric-sized wells

Fluke 9140 – Mid-Temperature Field Dry-Well

- **Temperature Range:** 35°C to 350°C
- **Stability:** $\pm 0.05^{\circ}\text{C}$ or better
- **Uniformity:**
 - **0.1°C** in small-diameter wells
 - **0.4°C** in largest-diameter wells
- **Speed:** Reaches max temperature in 12 minutes
- **Size:** Weighs only 6 lbs, easily portable with one hand
- **Display Accuracy:** $\pm 0.5^{\circ}\text{C}$

For improved calibration accuracy, use an **external thermometer** alongside the built-in display.

Insert Options:

Three removable inserts available to accommodate various probe sizes.

Why Choose the 9103 or 9140?

Model	Temperature Range	Stability	Display Accuracy	Key Benefits
9103	-25 °C to 110+ °C	±0.02 °C	±0.25 °C	True sub-ambient performance without freezer
9140	35 °C to 350 °C	±0.05 °C	±0.5 °C	Light, fast, and ideal for field portability

Both models are:

- **Reliable** for industrial and lab environments
- **Versatile** with multiple insert options
- **Backed by Fluke's proven calibration technology**

Specifications: Fluke Calibration 9103/9140 Field Dry-Well

Specifications	9103	9140
Range	-25°C to 140°C (-13°F to 284°F) at 23°C ambient	35°C to 350°C (95°F to 662°F)
Accuracy	±0.25°C (holes greater than 1/4" [6.35mm]): ±1°C)	±0.5°C (holes greater than 1/4" [6.35mm]: ±1°C)
Stability	±0.02°C at -25°C ±0.04°C at 140°C	±0.03°C at 50°C ±0.05°C at 350°C
Well-to-well uniformity	±0.1°C between similarly sized wells	±0.1°C with similarly sized wells
Heating times	18 minutes from ambient to 140°C	12 minutes from ambient to 350°C
Cooling times	20 minutes from ambient to -25°C	15 minutes from 350°C to 100°C
Stabilization time	7 minutes	7 minutes
Immersion depth	124 mm (4.875 in)	124 mm (4.875 in)
Inserts	Insert A, B, C, or D included (specify when ordering)	
Outside insert dimensions	31.8 mm dia. x 124 mm (1.25 x 4.88 in)	
Computer interface	RS-232 included with free Interface-it software (Model 9930)	
Power	115 V AC (±10%), 1.3 A or 230 V AC (±10%), 0.7 A, switchable, 50/60 Hz, 150 W	115 V AC (±10%), 4.4 A or 230 V AC (±10%), 2.2 A, switchable, 50/60 Hz, 500 W
Size (W x H x D)	143 x 261 x 245 mm (5.63 x 10.25 x 9.63 in)	152 x 86 x 197 mm (6 x 3.375 x 7.75 in)
Weight	5.7 kg (12 lb)	2.7 kg (6 lb)
NIST-traceable certificate	Data at -25°C, 0°C, 25°C, 50°C, 75°C, 100°C, and 140°	Data at 50°C, 100°C, 150°C, 200°C, 250°C, 300°C, and 350°C

Ordering information



Fluke 9103

Fluke Calibration 9103 Field Dry-Well
Insert, blank (cold side)
-25°C to 140°C

Part#: 4214944
UPC#: notfound

Fluke 9103-A

Fluke Calibration 9103-A Field Dry-Well
Insert "A", miscellaneous (cold side)
-25°C to 140°C

Part#: 1657926
UPC#: 095969128582

Wells: 1/16" (1.6 mm), 1/8" (3.2 mm), 3/16" (4.8 mm), 1/4" (6.35 mm), 3/8" (9.5 mm) and 1/2" (12.7 mm)

Fluke 9103-B

Fluke Calibration 9103-B Field Dry-Well
Insert "B", comparison (cold side)
-25°C to 140°C

Part#: 1657944

UPC#: 095969128605

Wells: 2 at 3/16" (4.8 mm), 2 at 1/4" (6.35 mm), and 2 at 3/8" (9.5 mm)

Fluke 9103-C

Fluke Calibration 9103-C Field Dry-Well

Insert "C", six 1/4 in wells (cold side)

-25°C to 140°C

Part#: 1657967

UPC#: 095969128629

Wells: 6 at 1/4" (6.35 mm)

Fluke 9103-D

Fluke Calibration 9103-D Field Dry-Well

Insert "D", comparison - metric (cold side)

-25°C to 140°C

Part#: 2001126

UPC#: 095969195584

Wells: 2 at 3 mm, 2 at 4 mm, and 2 at 6 mm

Fluke 9140

Fluke Calibration 9140 Field Dry-Well

Insert, blank

35°C to 350°C

Part#: 4214959

UPC#: notfound

Fluke 9140-A

Fluke Calibration 9140-A Field Dry-Well

Insert "A"

35°C to 350°C

Part#: 1658268

UPC#: 095969128926

Wells: 1/16" (1.6 mm), 1/8" (3.2 mm), 3/16" (4.8 mm), 1/4" (6.35 mm), 3/8" (9.5 mm) and 1/2" (12.7 mm)

Fluke 9140-B

Fluke Calibration 9140-B Field Dry-Well
Insert "B"
35°C to 350°C

Part#: 1658287
UPC#: 095969128940

Wells: 2 at 3/16" (4.8 mm), 2 at 1/4" (6.35 mm), and 2 at 3/8" (9.5 mm)

Fluke 9140-C

Fluke Calibration 9140-C Field Dry-Well
Insert "C"
35°C to 350°C

Part#: 1658302
UPC#: 095969128964

Wells: 6 at 1/4" (6.35 mm)

Fluke 9140-D

Fluke Calibration 9140-D Field Dry-Well
Insert "D"
35°C to 350°C

Part#: 2001167
UPC#: 095969195621

Wells: 2 at 3 mm, 2 at 4 mm, and 2 at 6 mm

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