



Now available from



800-323-4340
ColeParmer.com/Digi-Sense

All **NEW** meters inside! Why Choose
Digi-Sense™ Instruments?

 Accurate Precision meters deliver the best accuracies

 Reliable Precalibrated by InnoCal® to NIST-traceable standards reliable results guaranteed

 Durable Built to last—rugged design withstands your most demanding applications

 Recommended by your test & measurement experts for more than 60 years





Call: 800-323-4340 Fax: 847-247-2929

E-mail: sales@coleparmer.com

Web: ColeParmer.com/Digi-Sense

Go to www.coleparmer.com/terms for a full list of terms and conditions. For full information on returns, go to www.coleparmer.com/returns

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Don't get burned!

Catch equipment failures before they happen

Infrared Thermometers

- Maintain your safety—take measurements from a safe distance without contacting sample area
- Surface temperature readings in a snap—as quick as 300 ms
- Continuous scanning of your target with trigger lock
- Advanced features at an entry-level price—all units feature Min/ Max and Hold functions, single targeting laser, and large backlit LCD
- Adjustable emissivity and user-adjustable temperature alarm with indicator light on models 20250-05 and 20250-06
- Have confidence in your readings—precalibrated before you get it!



Model	20250-04	20250-05	20250-06
Distance-to-sight (D/S) ratio	10:1	12:1	20:1
Temperature range	-4 to 630°F (-20 to 332°C)	−31 to 1000°F (−35 to 537°C)	−31 to 1472°F (−35 to 800°C)
Accuracy	±2.5 of rdg or ±4.5°F (2.5°C)	±4.5°F (2.5°C) from -58 to 68°F (-35 to 20°C); ±1.0% ±1 of rdg from 68 to 572°F (20 to 300°C); ±1.5% ±1 of rdg from 572 to 1000°F (300 to 537°C)	±4.5°F (2.5°C) from -58 to 68°F (-35 to 20°C); ±1.0% ±1 of rdg from 68 to 572°F (20 to 300°C); ±1.5% ±1 of rdg from 572 to 1472°F (300 to 800°C)
Emissivity	0.95 fixed	0.10 to 1.0 adjustable	

AM-20250-04 IR thermometer, 10:1 AM-20250-05

IR thermometer, 12:1

AM-20250-06

IR thermometer, 20:1

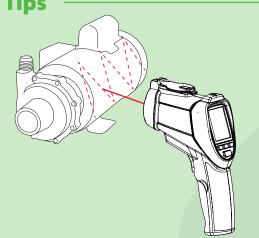
IR Measurement Tips

To locate a hot spot: First aim outside the area of interest, then scan across the area with an up-and-down motion until you locate the hot spot.

Measure surface temperature only: IR thermometers can't measure internal temperatures.

Don't take measurements through glass: Glass has very distinctive reflection and transmission properties that do not allow an accurate IR temperature reading. IR thermometers are not recommended for use in measuring shiny or polished metal surfaces (stainless steel, aluminum, etc.).

Watch environmental conditions: Steam, dust, smoke, etc., can prevent accurate measurements by obstructing the unit's optics.



<u>Temperature</u>

Professional Series Infrared Thermometers

Dual targeting lasers for accurate measurements up to 4 feet away!

- High distance-to-sight ratios provide more accurate measurements from a distance
- Take contact measurements as well with external type K input
- Review data with included software—USB makes for easy data transmission
- Feature Min/Max/Avg and Hold readings, temperature differential, high/low alarms, adjustable emissivity, trigger lock, and USB interface

Model 20250-07

Temperature range: -58 to 3002°F (-50 to 1650°C)

Distance-to-sight ratio: 30:1

Data logging: no

Model 20250-08

Temperature range: -58 to 3362°F (-50 to 1850°C)

Distance-to-sight ratio: 50:1

Data logging: yes

AM-20250-07

IR thermometer, 30:1

AM-20250-08

IR thermometer, 50:1, with data logging

Infrared Stick Thermometer IP54 rated for dust and

water resistance

- One-button operation for quick and easy measurements
- Have confidence in your readings—precalibrated before you get it!
- Temperature range: 0 to 500°F (-18 to 260°C)
- Accuracy: ±2%
- Distance-to-sight ratio: 8:1

AM-20250-09

IR stick thermometer, 8:1







<u>Temperature</u>

Thermocouple Thermometers Versatile units adapt as your needs change—

Versatile units adapt as your needs change from lab to field

- No need to worry about thermocouple probe errors electronic offset function compensates for errors
- Maintain visibility of major events with time stamp
- Accept K and J thermocouple probes with miniconnector for added versatility
- Provide Min/Max/Avg, Hold, and °F/°C/K selectable units

• Temperature range

Type K: -328 to 2501°F (-200 to 1372°C)
Type J: -346 to 2012°F (-210 to 1100°C)

AM-20250-01

Single-channel thermometer

AM-20250-02

Dual-channel thermometer with data logging

AM-20250-03

Four-channel thermometer with data logging

See page 4 for Type K Thermocouple Probes



Large

easy-to-read

backlit display



20250-01

Side buttons for easy one-handed operation

20250-03

Precalibrated!

Each meter includes a data-rich, ISO 17025 compliant certificate.

(Ô) DIGI-SENSE.

Read all channel values on same screen

Professional Series Thermocouple Thermometers Measure safely from a distance with optional IR wand

Same great features of thermocouple units above, plus:

- Measure temperature differential readings easily and accurately
- Accept type K thermocouples with miniconnector for readings from –328 to 2501°F (–200 to 1372°C) with ±0.5% accuracy

AM-20250-18

Single-channel thermometer

AM-20250-17

Dual-channel thermometer AM-20250-19

Dual-channel thermometer with data logging and USB port

AM-20250-20

Four-channel thermometer with data logging and USB port

Optional IR Wand

 8:1 distance-to-sight ratio and range of -31 to 1022°F (-35 to 550°C) allows you to measure surface temperature from a distance with accuracy of ±2.0%

AM-20250-24

Optional infrared wand



Need help selecting?

Free Technical Support 800-323-4340

General-Purpose Thermohygrometers One-handed operation for easy measurements

• Displays humidity, dew point, wet bulb, and temperature readings with ±2% RH measurement accuracy

- Have confidence in your readings—precalibrated before you get it!
- Unique side button controls allows for one-handed operation
- Additional features on 20250-12 include external thermocouple, dry bulb measurement, and TSH and TEET calculations for more accurate balancing of airflow systems

AM-20250-11

Backlit display for easier

reading

Thermohygrometer

AM-20250-12

Thermohygrometer with thermocouple

See page 4 for Type K Thermocouple Probes





Side buttons for easy, one-handed operation



20250-12



Professional Thermohygrometer

One meter—all the readings you need

- Measures temperature and humidity, then calculates absolute humidity, dew point, and wet bulb for you
- Instrument that stands up to your demands—rugged **construction** for longer life
- Have confidence in your readings—precalibrated before you get it!
- Added features include Min/Max and Hold functions for easier capture and review of data

AM-20250-21

Professional thermohygrometer

Rugged, comfortable design meets your demands



Don't blow it!

Keep heating and cooling systems running smoothly

Pressure and Flow Meter

- Ready to use when you get it—includes pitot tube and two rubber hoses
- Count on your readings—accurate to ±0.3% of the full scale
- Easily recall previous readings—stores up to 99 readings per parameter with time reference
- Measures differential and static pressure, while also calculating air velocity and airflow
- More in-depth data analysis with **included software** right on your desktop
- Have confidence in your readings—precalibrated before you get it!

AM-20250-13

Pressure and flow meter



Precise airflow measurements ensure safer conditions

number saved in memory







<u>Airflow</u>

Compact Vane Anemometer

Pocket-sized readings in selectable units

- No conversion calculations required select from ft/min, m/s, mph, km/h, or knots
- Precise airflow measurements from 80 to 5900 ft/min with accuracy of $\pm 3\%$
- Read display easily anytime—backlight turns on automatically in low light

AM-20250-23

Compact vane anemometer



Data Logging Anemometer

Long-term monitoring with mounting stand

- Easily analyze and graph data with **USB** interface
- High and low level alarms with LED indicator
- Precise measurements up to 3937 ft/min with accuracy of $\pm 3\%$
- Select unit of measure—ft/min, m/s, mph, km/h, or knots

AM-20250-22

Data logging anemometer



Built-in USB for easy downloads

Buy precalibrated now,

Save on recalibration with InnoCal®!

CFM/CMM Vane Thermoanemometer

No need to change views—read two measurements simultaneously

- Two memory locations store commonly used vent sizes to save you time
- Make conversions a thing of the past—user-selectable units include ft/min, m/s, mph, km/h, knots, CFM, and CMM
- Dual-line display for reading air velocity or airflow, and air temperature simultaneously
- Measure air velocity up to 5900 ft/min with ±3% accuracy; airflow up to 999,900 CFM/CMM
- Sampling rate of approximately 1 reading/second

AM-20250-14

CFM/CMM vane thermoanemometer



Side buttons let you operate unit with one hand while holding probe with the other

Airflow

Professional CFM/CMM Vane Thermoanemometer

Save time—store up to 16 vent sizes for easy recall

- Meet environmental requirements more effectively with accuracy of ±3% accuracy
- User-selectable units include ft/min, m/s, mph, km/h, knots, CFM, and CMM
- Dual-line display for reading air velocity or airflow, and air temperature simultaneously
- Measure air velocity up to 5900 ft/min and airflow up to 999,900 CFM/CMM
- Sampling rate of approximately 1 reading/second
- Keep instrument safe with included hard carrying case

AM-20250-15

Professional CFM/CMM vane thermoanemometer

(B) DIGI-SENSE



CFM/CMM Hot-Wire Thermoanemometer Get airflow readings even in narrow spaces

- High-precision readings even when measuring low air velocities and flow rates
- Measure in your desired units—ft/min, m/s, mph, km/h, knots, CFM, and CMM
- Dual-line display for reading air velocity or airflow, and air temperature simultaneously
- Measure air velocity up to 4925 ft/min with ±1% full-scale accuracy; airflow up to 99,999 CFM/CMM
- Sampling rate of approximately 1 reading per 0.8 second

AM-20250-16

CFM/CMM hot-wire thermoanemometer



Narrow probe gets into even the tightest spaces



Don't get blinded!

Stay in code and ensure safer environmental conditions

Data Logging Light Meter

- · Perfect for most applications—measures from 0 to 400 klux
- Count on your readings—accurate to ±3% with silicon photo diode and spectral response filter
- Record and analyze your data for future recall stores up to 87,000 measurements
- More in-depth data analysis with included software right on your desktop
- Have confidence in your readings precalibrated before you get it!
- Measure in either lux or footcandles

AM-20250-00

Data logging light meter



Use it wherever lighting is critical









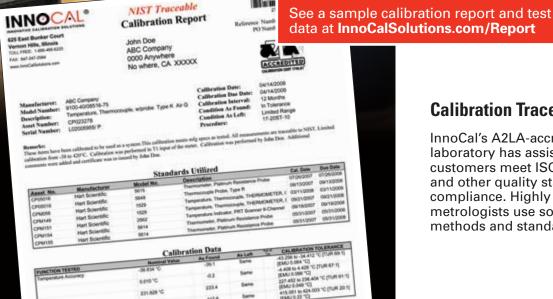
Experts in NIST-Traceable Instrument Calibration



Precalibration by InnoCal

Each Digi-Sense™ meter shown in this catalog is precalibrated to:

- Ensure accuracy to NIST-traceable standards by an A2LA-accredited metrology lab
- ✓ Arrive with a data-rich calibration certificate that is ISO 17025 compliant—
 at no additional charge
- Meet stringent quality requirements



Calibration Traceable to NIST Standards

InnoCal's A2LA-accredited metrology laboratory has assisted thousands of customers meet ISO, USDA, EPA, GLPs/cGMPs, and other quality standards including FDA compliance. Highly trained and experienced metrologists use some of the most advanced methods and standards available.



Conformity*

ANSI/ISO/IEC 17025:2005 accredited NIST Handbook 150, 2000 Edition ANSI/NCSL Z540-2-1997 NIST Technical Note 1297 ISO 9000:2000

*Please check our scope of accreditation for any limitations.

Precalibration Recalibration On-Site

Contact us for more information!

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