

Vaiseshika® Universal Pocket Calibrators

Series UC

Introduction

Series UC Calibrator is handheld, battery-operated instrument that measures and sources electrical parameters like temperature current and voltage. These capabilities of measure and source make it a wonderful facility for onsite and in the lab calibrations and testing of current meters, volt meters, temperature sensors and indicators etc.

Being compact and portable this instrument can generate only one signal at a time i.e. either source or measure .



Series UC

General Features & specifications

- ✦ Simulation and measurement of programmable test points
- ✦ Digital, menu driven value adjustment, 6 keys and navigator
- ✦ Switchable menu languages D, GB, F, E, I
- ✦ Background-lit, graphic LC-display, 160 x 160 pixel
- ✦ Step, Ramp, Cycle, HOLD and scaling functions
- ✦ Linear and Square function, HART-protocol, filter
- ✦ Generation of default values, increases, single or cyclic ramps
- ✦ Storage of acquisition and display in the form of tables or trend curves
- ✦ Use of calibrated sensors with their coefficients of correction
- ✦ Range of application of standards from 0 to 2200 m.
- ✦ Reference temperature range: 23°C ± 5°C, relative humidity: 45 % to 75 %.
- ✦ Nominal operating range: -10°C to +50°C, relative humidity: 20 % to 80 % non-condensing.
- ✦ Operating range limit: -15°C to +55°C, relative humidity: 10 % to 80 % (70 % at 55°C).
- ✦ Storage and transport temperature range limit: - 30°C to + 60°C (without the batteries).
- ✦ Editable display units, real-time clock, high-speed call (%FS)
- ✦ Average value, MIN/MAX, Offset functions, Valve test
- ✦ Serial USB PC interface (type mini B)
- ✦ Electrical connection by 4 gold-coated 4 mm safety sockets
- ✦ Power supply via 4 x 1.5V batteries (AA type)
- ✦ Protection class IP 54
- ✦ Dimensions approx. 160 x 85 x 45 mm
- ✦ Weight approx. 300 g
- ✦ Including carrying strap, battery set

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UC TC

THERMOCOUPLE CALIBRATOR : UC TC & mV

The **UC TC & mV** is a portable thermocouple temperature calibrator (compliant to EC standards). It is especially designed for the calibration and maintenance. It performs voltage and temperature measuring and emission functions (continuous or LF ramps) makes it useful instrument in a laboratory as well as onsite.

- Signals: (TC) Types J / K / T / R / S / B / C / U / L / N / E
Different temperature ranges according to DIN, IEC, JIS etc.
Temperature adjustable in 0.1 steps
- (mV) Voltage 0...100mV
Voltage adjustable within μ V-range
- Data logging function via flash memory for 10,000 measured values
- Graphic and tabular display of the measured values
- Sensor-specific linearization with 10 points
- 1x Mini-TC-plug for thermocouple type K
- Accuracy: $\pm 0.020\%$ of rdg. +K
- Resolution: 0.1 °C or 0.1 °F and 1 μ V



UC RTD

RTD CALIBRATOR : UC RTD & Ω

The **UC RTD & Ω** is a portable resistive sensor temperature calibrator (compliant to EC standards). It is especially designed for the calibration and maintenance functions for onsite as well as in a lab.

- Signals: (RTD) Pt50/ Pt100/ Pt200/ Pt 500/ Pt1000
Ni 100/Ni 120/Ni1000/Cu 10/Cu 50
Different temperature ranges according to DIN, IEC, JI etc.
Temperature coefficients adjustable
Temperature adjustable in 0.01 steps
- (Ω) Resistance 0...400 Ω /0...4000 Ω
Resistances adjustable within m Ω -ranges
- Data logging function via flash memory for 10,000 measured values
- Graphic and tabular display of the measured values
- Sensor-specific linearization with 10 points
- Accuracy: $\pm 0.012\%$ of rdg. +K
- Resolution: 0.01 °C or 0.01 °F and 1..10m Ω



UC mAV

LOOP CALIBRATOR : UC mAV

The **UC mAV** is a hand-held process calibrator (conforming to EC standards). It is more particularly intended for calibration and maintenance. It can measure and generate electrical quantities either on site or in the laboratory. It fulfils voltage and current measuring and generation functions (DC or LF ramp signals) and a continuity test (on passive loop). Owing to its monitoring (regulation) mechanism in transmission mode, the instrument cannot take measurements and transmit simultaneously.

- Signals: (mA) Current 0 (4)...20mA, 25 mA
Current adjustable in 0.1mA steps
- (V) Voltage 0...10V, 25V, 50V
Voltage adjustable in 0.1V steps
- Transmitter Supply : 24 VDC/22mA
- Accuracy: $\pm 0.015\%$ of rdg. +K
- Resolution: 0.1 mA or 0.1 V

Vaiseshika® Universal Pocket Calibrators

Series UC

Detailed Specifications : UC TC & mV

Measure Mode

Rated maximum voltage in common mode: 60 VDC or VAC.

• Temperature per thermocouple (measurement) :

Type of sensors : - for **Measurement/Source** Mode

• Standardised in accordance with CEI 584-1/1995 (Thermocouples K, T, J, E, S, B, N).

• In accordance with Din 43710 (thermocouples U and L).

• In accordance with the HOSKINS table (thermocouple C).

• In accordance with the ENGELHARD table (platinum thermocouple).

Sensor	Scope of measurement	Resolution	Accuracy (±)
K	-250°C up to -200 °C	0.20 °C	0.90 °C
	-200°C up to -120 °C	0.10 °C	0.3 °C
	-120°C up to -50 °C	0.05 °C	0.02 % of rdg. + 0.12 °C
	-50°C up to 1372 °C	0.05 °C	0.02 % of rdg. + 0.11 °C
T	-250°C up to -200 °C	0.20 °C	0.80 °C
	-200°C up to -50 °C	0.05 °C	0.25 °C
	-50°C up to 400 °C	0.05 °C	0.02 % of rdg. + 0.09 °C
J	-210°C up to -200 °C	0.05 °C	0.30 °C
	-200°C up to -120 °C	0.05 °C	0.25 °C
	-120°C up to 60 °C	0.05 °C	0.020 % of rdg. + 0.11 °C
	60°C up to 1200 °C	0.05 °C	0.020 % of rdg. + 0.09 °C
E	-250°C up to -200 °C	0.10 °C	0.55 °C
	-200°C up to -100 °C	0.05 °C	0.20 °C
	-100°C up to 450 °C	0.05 °C	0.020 % of rdg. + 0.07 °C
	450°C up to 1000 °C	0.05 °C	0.020 % of rdg. + 0.05 °C
R	-50°C up to 150 °C	0.50 °C	0.95 °C
	150°C up to 550 °C	0.20 °C	0.40 °C
	550°C up to 1768 °C	0.10 °C	0.020 % of rdg. + 0.30 °C
S	-50°C up to 150 °C	0.50 °C	0.85 °C
	150°C up to 550 °C	0.20 °C	0.020 % of rdg. + 0.4 °C
	550°C up to 1768 °C	0.10 °C	0.020 % of rdg. + 0.3 °C
B	400°C up to 900 °C	0.20 °C	0.95 °C
	900°C up to 1820 °C	0.10 °C	0.50 °C
U	-200°C up to -100 °C	0.05 °C	0.35 °C
	-100°C up to 600 °C	0.05 °C	0.20 °C
L	-200°C up to -100 °C	0.05 °C	0.30 °C
	-100°C up to 900 °C	0.05 °C	0.20 °C
C	-20°C up to 900 °C	0.10 °C	0.30 °C
	900°C up to 2310 °C	0.10 °C	0.020 % of rdg.+ 0.15 °C
N	-240°C up to -190 °C	0.20 °C	0.60 °C
	-190°C up to -110 °C	0.10 °C	0.25 °C
	-110°C up to 0 °C	0.05 °C	0.15 °C
	0°C up to 1300 °C	0.05 °C	0.020 % of rdg. + 0.07 °C
Platinum	- 100°C up to 1400 °C	0.05 °C	0.3 °C
Mo	0°C up to 1375 °C	0.05 °C	0.020 % of rdg. + 0.10 °C
NiMo/NiCo	- 50°C up to 1410 °C	0.05 °C	0.020 % of rdg. + 0.35 °C

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Source Mode

Rated maximum voltage in common mode: 60 VDC or VAC.

* Temperature per thermocouple (source) :

Sensor	Scope of measurement	Resolution	Accuracy (±)
K	-240°C up to -50 °C	0.20 °C	0.80 °C
	-50°C up to 120 °C	0.10 °C	0.30 °C
	120°C up to 1372 °C	0.05 °C	0.020 % of rdg. + 0.11 °C
T	-240°C up to -100 °C	0.20 °C	0.50 °C
	-100°C up to -40 °C	0.05 °C	0.25 °C
	-40°C up to 400 °C	0.05 °C	0.020 % of rdg. + 0.10 °C
J	-210°C up to 50 °C	0.05 °C	0.35 °C
	50°C up to 500 °C	0.05 °C	0.020 % of rdg. + 0.11 °C
	500°C up to 1200 °C	0.05 °C	0.020 % of rdg. + 0.09 °C
E	-240°C up to -100 °C	0.10 °C	0.55 °C
	-100°C up to 40 °C	0.10 °C	0.20 °C
	40°C up to 1000 °C	0.05 °C	0.020 % of rdg. + 0.06 °C
R	-50°C up to 350 °C	0.50 °C	0.95 °C
	350°C up to 900 °C	0.20 °C	0.5 °C
	900°C up to 1768 °C	0.10 °C	0.020 % of rdg. + 0.30 °C
S	-50°C up to 350 °C	0.50 °C	0.90 °C
	350°C up to 900 °C	0.20 °C	0.020 % of rdg. + 0.40 °C
	900°C up to 1768 °C	0.10 °C	0.020 % of rdg. + 0.30 °C
B	400°C up to 850 °C	0.20 °C	0.95 °C
	850°C up to 1820 °C	0.10 °C	0.50 °C
U	-200°C up to -70 °C	0.05 °C	0.35 °C
	-70°C up to 600 °C	0.05 °C	0.20 °C
L	-200°C up to -70 °C	0.05 °C	0.30 °C
	-70°C up to 900 °C	0.05 °C	0.25 °C
C	-20°C up to 900 °C	0.10 °C	0.35 °C
	900°C up to 2310 °C	0.10 °C	0.020 % of rdg.+ 0.15 °C
N	-240°C up to 10 °C	0.20 °C	0.90C
	10°C up to 250 °C	0.10 °C	0.20 °C
	250°C up to 1300 °C	0.05 °C	0.020 % of rdg. + 0.09 °C
Platinum	-100°C up to + 1400 °C	0.05 °C	0.35 °C
Mo	+0°C up to + 1375 °C	0.05 °C	0.25 °C
NiMo/NiCo	-50°C up to + 1410 °C	0.05 °C	0.020 %of rdg. + 0.35 °C

The precision is guaranteed for a reference junction (JR) at 0°C.

With the use of the internal JR (except for thermocouple B), add an additional uncertainty of 0.3 °C to 0 °C. For the other temperatures, it is good idea to take into consideration the sensitivity of the thermocouple at the temperature (T) considered, namely an additional uncertainty of $0.3^{\circ}\text{C} * S(0^{\circ}\text{C})/S(T)$.

- Temperature coefficient : <10% of rdg/°C
- You can, except for thermocouple B, choose the location of the reference junction (JR) by programming it on the keyboard.
 - external at 0°C
 - Internal (temperature compensation at the device terminals).
 - by programming the temperature.

* Constant voltage (measurement/Source) :

The voltage measurement is made by configuring the device as follows:

- Thermocouple: indifferent. • Unit: mV. • CSF: OFF.

Range	Scope of measurement	Resolution	Precision
100 mV (measurement)	-10 mV up to 100mV	1 μV	0.020 % of rdg. + 3 μV
80 mV (source)	-9.5 mV up to 80 mV	1 μV	0.020 % of rdg. + 3 μV

- Temperature coefficient < 15 ppm of rdg. /°C from 0°C to 18°C and from 28°C to 50 °C. (measurement)
- Temperature coefficient < 10 ppm of rdg. /°C from 0°C to 18°C and from 28°C to 50 °C. (source)
- Internal Resistance $R_{in} = 1 \text{ Mohm}$

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Detailed Specifications : UC mAV

Measure Mode

Maximum rated voltage in common mode: 60 VDC or VAC.

✱ Voltage (DC) measurement :

Range	Measurement range	Minimum resolution	Precision / 1 year
0/10 V	-2 V up to 12 V	1 mV	0.015 % of rdg. + 2 mV
25 V	-2 V up to 25 V	1 mV	0.015 % of rdg. + 2 mV
50 V	-5 V up to 50 V	1 mV	0.015 % of rdg. + 4 mV

- Temperature coefficient < 15 ppm / °C from 0°C to 18°C and from 28°C to 50°C.
- Internal Resistance $R_{in} = 1 \text{ M}\Omega \pm 1 \%$
- Common mode rejection: 120 dB at 50 and 60 Hz.

✱ Current (DC) measurement :

Range	Measurement range	Minimum resolution	Precision / 1 year
0/20 mA	-6 mA up to 24 mA	1 μ A	0.015 % of rdg. + 2 μ A
4/20 mA	3.2 mA up to 24 mA	1 μ A	0.015 % of rdg. + 2 μ A
25 mA	-6 mA up to 25 mA	1 μ A	0.015 % of rdg. + 2 μ A

- Temperature coefficient < 20 ppm/°C from 0°C to 18°C and from 28°C to 50°C.
- Possible loop power supply = 24 V $\pm$ 10%.
- $R_{in} < 30\Omega$
- HART compatibility: $R = 250\Omega \pm 5 \%$
- Common mode rejection: 120 dB at 50 and 60 Hz.

✱ Continuity function :

Maximum rated voltage in common mode: 60 VDC or VAC.

Range	Resolution	Remarks
Continuity	Open/Closed	Considered
		closed at $Z=[0...1\Omega]$
		open at $Z=[1k\Omega... \infty]$

Source Mode

Maximum rated voltage in common mode: 60 VDC or VAC.

✱ Voltage (DC) Source :

Range	Measurement range	Minimum resolution	Precision / 1 year
0/10V	0 V up to 12 V	1 mV	0.015 % of rdg. + 2 mV
15V	0 V up to 15 V	1 mV	0.015 % of rdg. + 2 mV

- Temperature coefficient < 15 ppm/°C from 0°C to 18°C and from 28°C to 50°C.
- Rise time: < 1ms (0V to 15V across 1 M Ω load).
- Internal resistance: 1 Ω
- VLF noise: < 1mV (at F < 100Hz).

✱ Current (DC) Source :

Range	Measurement range	Minimum resolution	Precision / 1 year
0/20mA	500 μ A up to 24 mA	1 μ A	0.015 % of rdg. + 2 μ A
4/20mA	3.2 mA up to 24 mA	1 μ A	0.015 % of rdg. + 2 μ A
25mA	500 μ A up to 25 mA	1 μ A	0.015 % of rdg. + 2 μ A

- Temperature coefficient < 20 ppm/°C from 0°C to 18°C and from 28°C to 50°C.
- Rise time: < 500 μ S (0 to 20 mA across a 20 Ω load).
- VLF noise: < 1 μ A (at F < 100Hz).

Universal Pocket Calibrators

Series UC

Vaiseshika®

Detailed Specifications : UC RTD & Ω

Measure Mode

Rated maximum voltage in common mode: 60 VDC or VAC.

* Resistance (measurement) :

The resistance measurement function is obtained by configuring the device as follows:

Sensor: PT100 and Unit: Ohm for the 400 Ω gauge.

Sensor: PT1000 and Unit: Ohm for the 3600 Ω gauge.

Range	Scope of measurement	Resolution	Precision
400 Ω	0 Ω up to 400 Ω	10 m Ω	0.012 % of rdg. + 10 m Ω
3600 Ω	0 Ω up to 3600 Ω	100 m Ω	0.012 % of rdg. + 100 m Ω

Temperature coefficient < 10 ppm/ $^{\circ}\text{C}$ from 0 $^{\circ}\text{C}$ to 18 $^{\circ}\text{C}$ and from 28 $^{\circ}\text{C}$ to 50 $^{\circ}\text{C}$.

- Automatic wiring diagram detection: 2 wires, 3 wires or 4 wires.
- In the 2-wire assembly, the measurement includes the line resistance.
- In the 3-wire assembly, add the line resistance imbalance.
- Measurement current 0.65 mA

* Temperature by resistive sensors (measurement) :

Sensor	Scope of measurement	Resolution	Precision
Pt 50 ($\alpha = 3851$)	-220 $^{\circ}\text{C}$ up to 850 $^{\circ}\text{C}$	0.01 $^{\circ}\text{C}$	0.012 % of rdg. + 0.06 $^{\circ}\text{C}$
Pt 100 ($\alpha = 3851$)	-220 $^{\circ}\text{C}$ up to 850 $^{\circ}\text{C}$	0.01 $^{\circ}\text{C}$	0.012 % of rdg. + 0.05 $^{\circ}\text{C}$
Pt 100 ($\alpha = 3916$)	-200 $^{\circ}\text{C}$ up to 510 $^{\circ}\text{C}$	0.01 $^{\circ}\text{C}$	0.012 % of rdg. + 0.05 $^{\circ}\text{C}$
Pt 100 ($\alpha = 3926$)	-210 $^{\circ}\text{C}$ up to 850 $^{\circ}\text{C}$	0.01 $^{\circ}\text{C}$	0.012 % of rdg. + 0.05 $^{\circ}\text{C}$
Pt 200 ($\alpha = 3851$)	-220 $^{\circ}\text{C}$ up to 1200 $^{\circ}\text{C}$	0.01 $^{\circ}\text{C}$	0.012 % of rdg. + 0.12 $^{\circ}\text{C}$
Pt 500 ($\alpha = 3851$)	-220 $^{\circ}\text{C}$ up to 1200 $^{\circ}\text{C}$	0.01 $^{\circ}\text{C}$	0.012 % of rdg. + 0.07 $^{\circ}\text{C}$
Pt 1000 ($\alpha = 3851$)	-220 $^{\circ}\text{C}$ up to 760 $^{\circ}\text{C}$	0.01 $^{\circ}\text{C}$	0.012 % of rdg. + 0.05 $^{\circ}\text{C}$
Ni 100 ($\alpha = 618$)	-60 $^{\circ}\text{C}$ up to 180 $^{\circ}\text{C}$	0.01 $^{\circ}\text{C}$	0.012 % of rdg. + 0.03 $^{\circ}\text{C}$
Ni 120 ($\alpha = 672$)	-40 $^{\circ}\text{C}$ up to 205 $^{\circ}\text{C}$	0.01 $^{\circ}\text{C}$	0.012 % of rdg. + 0.03 $^{\circ}\text{C}$
Ni 1000 ($\alpha = 618$)	-60 $^{\circ}\text{C}$ up to 180 $^{\circ}\text{C}$	0.01 $^{\circ}\text{C}$	0.012 % of rdg. + 0.03 $^{\circ}\text{C}$
Cu 10 ($\alpha = 427$)	-70 $^{\circ}\text{C}$ up to 150 $^{\circ}\text{C}$	0.10 $^{\circ}\text{C}$	0.012 % of rdg. + 0.18 $^{\circ}\text{C}$
Cu 50 ($\alpha = 428$)	-50 $^{\circ}\text{C}$ up to 150 $^{\circ}\text{C}$	0.01 $^{\circ}\text{C}$	0.012 % of rdg. + 0.06 $^{\circ}\text{C}$

- For negative temperatures, use the value displayed (of rdg.) and not its absolute value.
- Temperature coefficient: < 10 % of precision/ $^{\circ}\text{C}$.
- The above precision is given for a 4-wire connection to the temperature sensor.
- You should also take into consideration the actual error of the temperature sensor used, as well as the conditions of its setup.
- Measurement current: 0.65 mA

Source Mode

• Resistance (source) :

The resistance simulation function is obtained by configuring the device as follows:

Sensor PT100 and Unit Ω for the 400 Ω range

Sensor PT1000 and Unit Ω for the 3500 Ω range

Range	Scope of measurement	Resolution	Current range	Precision
400 Ω (DC)	0 Ω up to 400 Ω	1 m Ω	0.1 mA to 1 mA	0.012 % of rdg. + 30 m Ω
400 Ω (AC)	0 Ω up to 400 Ω	1 m Ω	[0.5 mA to 1 mA]	0.012 % of rdg. + 30 m Ω
			[0.1 mA to 0.5mA]	0.012 % of rdg. + 80 m Ω (1)
3500 Ω (DC)	0 Ω up to 3500 Ω	10 m Ω	0.1 mA to 1.1mA	0.012% of rdg.+ 300 m Ω
3500 Ω (AC)	0 Ω up to 3500 Ω	10 m Ω	[0.1 mA to 0.5 mA]	0.012 % of rdg.+ 300 m Ω
			[0.5 mA to 1mA]	0.012 % of rdg.+ 800 m Ω (1)

Note

1: You can amend these specifications to 0.012 % of rdg. + 30 m for the 400 gauge and to 0.012 % of rdg. + 300 m for the 3500 gauge by readjusting the device to the respective current range ([0.1 mA to 0.5 mA] and [0.5 mA to 1 mA])

- Temperature coefficient: < 10 % of precision/ $^{\circ}\text{C}$.
- The above precision is given for a 4-wire connection to the gauge.
- You should also take into consideration the actual error of the temperature sensor used, as well as the conditions of its setup.
- Set-up time: < 1 ms in "alternating current" mode

• Temperature by resistive sensors (source) :

Sensor	Scope of measurement	Resolution	Precision
Pt 50 ($\alpha=3851$)	-220 $^{\circ}\text{C}$ up to 850 $^{\circ}\text{C}$	0.01 $^{\circ}\text{C}$	0.012 % of rdg. + 0.18 $^{\circ}\text{C}$
Pt 100 ($\alpha=3851$)	-220 $^{\circ}\text{C}$ up to 850 $^{\circ}\text{C}$	0.01 $^{\circ}\text{C}$	0.012 % of rdg. + 0.12 $^{\circ}\text{C}$
Pt 100 ($\alpha=3916$)	-200 $^{\circ}\text{C}$ up to 510 $^{\circ}\text{C}$	0.01 $^{\circ}\text{C}$	0.012 % of rdg. + 0.12 $^{\circ}\text{C}$
Pt 100 ($\alpha=3926$)	-210 $^{\circ}\text{C}$ up to 850 $^{\circ}\text{C}$	0.01 $^{\circ}\text{C}$	0.012 % of rdg. + 0.12 $^{\circ}\text{C}$
Pt 200 ($\alpha=3851$)	-220 $^{\circ}\text{C}$ up to 1200 $^{\circ}\text{C}$	0.01 $^{\circ}\text{C}$	0.012 % of rdg. + 0.33 $^{\circ}\text{C}$
Pt 500 ($\alpha=3851$)	-220 $^{\circ}\text{C}$ up to 1200 $^{\circ}\text{C}$	0.01 $^{\circ}\text{C}$	0.012 % of rdg. + 0.18 $^{\circ}\text{C}$
Pt 1000 ($\alpha=3851$)	-220 $^{\circ}\text{C}$ up to 730 $^{\circ}\text{C}$	0.01 $^{\circ}\text{C}$	0.012 % of rdg. + 0.08 $^{\circ}\text{C}$
Ni 100 ($\alpha=618$)	-60 $^{\circ}\text{C}$ up to 180 $^{\circ}\text{C}$	0.01 $^{\circ}\text{C}$	0.012 % of rdg. + 0.08 $^{\circ}\text{C}$
Ni 120 ($\alpha=672$)	-40 $^{\circ}\text{C}$ up to 205 $^{\circ}\text{C}$	0.01 $^{\circ}\text{C}$	0.012 % of rdg. + 0.08 $^{\circ}\text{C}$
Ni 1000 ($\alpha=618$)	-60 $^{\circ}\text{C}$ up to 180 $^{\circ}\text{C}$	0.01 $^{\circ}\text{C}$	0.012 % of rdg. + 0.08 $^{\circ}\text{C}$
Cu 10 ($\alpha=427$)	-70 $^{\circ}\text{C}$ up to 150 $^{\circ}\text{C}$	0.01 $^{\circ}\text{C}$	0.012 % of rdg. + 0.10 $^{\circ}\text{C}$
Cu 50 ($\alpha=428$)	-50 $^{\circ}\text{C}$ up to 150 $^{\circ}\text{C}$	0.01 $^{\circ}\text{C}$	0.012 % of rdg. + 0.15 $^{\circ}\text{C}$

For negative temperatures, use the value displayed (of rdg.) and not its absolute value.

- Temperature coefficient: < 10 % of precision/ $^{\circ}\text{C}$.
- The above precision is given for a 4-wire connection to the gauge.
- You should also take into consideration the actual error of the temperature sensor used, as well as the conditions of its setup.
- These specifications are given for a measurement current of 0.1 mA to 1mA in direct current mode.

Product Range at A Glance

Vaiseshika®

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**Whenever you think of Standards
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- Resistance Standards
- Temperature Standards
- Humidity Standards
- Measuring Instruments
- Analytical Instruments
- Optical Instruments
- Force Standards
- Pressure Standards

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LOAD CELL CALIBRATION STANDARDS



Load Cell



Proving Ring



Brinell Calibrator



Universal Calibrating Machine



Ring Force Gauge



Dead Weight Calibrating Machine

PRESSURE CALIBRATION STANDARDS



PC 700⁺



Level Switch



Reference Pressure Gauge



Pressure Indicator



Flow Meter



Hand Held Pressure Calibrator

VAISESHIKA ELECTRON DEVICES

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