



TEMPERATURE

NICKEL-IRON / BALCO RTD IMMERSION, DUCT & OUTDOOR SENSORS TYPE 5, 77, 78 UNIVERSAL DUCT, IMMERSION, OSA

DESCRIPTION

The **Kele Wire Wound Nickel-Iron Balco RTD Sensors** are installed in rugged housings to measure the most important HVAC applications. The **Duct** and **Immersion Sensors** all have 304 stainless steel probes for use in almost any area.

The **Immersion Probe** comes with a standard brass or optional stainless steel thermowell.

The **Duct Sensor** has mounting tabs for direct mounting on a duct or installation in a handibox.

The **Outdoor Sensor**, rated for outdoor temperatures, is equipped with a sun shield and weatherproof box for mounting under the eaves or another sheltered area.

The **Type 78** and **77 Raw Sensors** are mounted in a 2" (5 cm) long aluminum case with teflon insulated lead wires. This sensor can be used for strap-on applications. The Type 5 raw sensor is mounted in a 2.5" (6.35 cm) PVC case.

The **Universal Sensor** may be used for duct, immersion, and OSA temperature sensing.



SPECIFICATIONS

Temperature Range -30° to 240°F (34° to 115°C)

Sensor Type

Type 5, 77 1000Ω @ 70°F (21°C)
Type 78 2000Ω ±0.12% @ 70°F (21°C)

Sensitivity

Type 5 2.2Ω/°F @ 70°F (21°C)
Type 77 2.48Ω/°F @ 70°F (21°C) two red wires
Type 78 4.96Ω/°F @ 70°F (21°C) two gray wires

Warranty

1 year

TEMPERATURE

19

ORDERING INFORMATION

MODEL	DESCRIPTION
ST-R	Raw sensor
ST-U	Universal duct, immersion, or OSA sensor
ST-D	Duct sensor
ST-W	Immersion sensor with brass well
ST-O	Outdoor air sensor
RTD SENSOR TYPE	
5	1000Ω nickel-iron, Balco sensor
77	1000Ω nickel-iron, Balco sensor
78	2000Ω nickel-iron, Balco sensor
OPTIONS	
XW	Weather resistant housing (factory installed ST-D and ST-W only)
XH	Handy-box (factory installed ST-D and ST-W only)
E	Immersion sensor without well (ST-W only)
S	Stainless steel thermowell (ST-W and ST-U only)
O	Kit with OSAB weather shield (ST-U only)
B	WEL-B brass well (ST-U only)

ST-D - **5** - **XW** **Example: ST-D5-XW** 1000Ω Balco duct sensor with a weatherproof housing

RELATED PRODUCTS

F-1000-331
OSAB
T5U-XR
TCC-111
TCC-12
WEL-B
WEL-S

Nylon bushing for open wiring
OSA weather shield, gasket, and bracket
1000 ohm Nickel, 4-20 mA temperature transmitter, custom rangeable
Thermal conductive compound 111 ml tub
Thermal conductive compound tube, 12 ml
Brass well
304 stainless steel well