Kobold Digital Temperature Sensor

- Measuring Range: -58 to 250°F
- Semiconductor Sensor
- Scalable 4-20mA Output
- Easy-to-Read LED Display
- All Stainless Steel Construction

**SPECIFICATIONS**

- Display Type: 3-digit red LED
- Display Resolution: 1° up to 212°F, 2° above 212°F
- Accuracy: ±1.0°F
- Switch Output: Optional PNP or NPN
- Pressure: 1150 PSIG max.
- Temperature: 120°F max ambient, 250°F max process
- Material: 316L Stainless Steel housing & probe
- Remote Probe Cable: Teflon, 8ft. std.
- Power: 24 VDC ±20% @ 20 mA
- Signal Output: 4-20 mA, 3-wire, 500Ω max. load
- Sample Rate: 0.5 Sec./sample
- Dampering: Averaging 2, 4, 8, 16, 32, or 64 samples
- Electrical Connection: 4-Pin M12 micro-DC male plug
- Electrical Protection: NEMA 4/IP 65

ORDERING INFORMATION

To Order: Insert Code for Each Letter to Select Catalog Number

**Example:** TDA-15N4F20L3M

A  Process Connection
N4  1/2” NPT
R4  1/2” BSPP (G 1/2)
N5  3/4” NPT
R5  3/4” BSPP (G 3/4)

B  Measuring Range
F2  0 to 250°F (not available with Remote Probe)
H2  -20 to 120°C (not available with Remote Probe)
F3  -58 to 250°F (only available with Remote Probe)
H3  -50 to 125°C (only available with Remote Probe)

C  Probe Length
0  12mm / 1/2" (not Available with Remote Probe)
1  100mm / 4" (not Available with Remote Probe)
2  185mm / 7.25" (not Available with Remote Probe)

D  Output
L3M  4-20mA
F3M  4-20mA + PNP switch (300mA max)
N3M  4-20mA + NPN switch (300mA max)

Kobold Magneto-Inductive Flowmeters

- Flow Rates from 0.26 GPM to 200 GPM
- Use with Conductive Liquids, Acids & Caustic
- No Moving Parts
- Digital Display Option
- Frequency or mA Output

**SPECIFICATIONS**

- Liquid: Conductivity >30 μS/cm
- Accuracy: ±2.0% of full scale
- Repeatability: ±1% of full scale
- Straight Pipe: Requires 2x dia. upstream, 2x downstream
- Operating Temp.: 32-176°F (140°F max. with PVC fittings)
- Pressure: 1150 PSIG max @ 70°F
- Pressure Drop: 3.6 PSI max @ 100% rated flow
- Electrical Protection: NEMA 4/IP 65
- Power Supply: 24 VDC ±20% required
- Connector: Micro-DC male, 4-pin (5-pin on C34)
- Frequency Output: PNP open collector, 200 mA max.
- Analog Output: 4-20 mA, 3-wire, 500Ω max.
- Switch Output: PNP or NPN open collector, 300 mA max.

Compact electronic units (C34 Output Type) have a digital display and programmable switch setpoint, reset point, switch logic, 4-20 mA span/zero, dampering & lockout code. Set via 2-button keypad. Models with Integral Totalizer & Batch Controller electronics are also available.

ORDERING INFORMATION

**Example:** MIK-5NAU4NL343

A  Body Material
5NA  Rytton with Buna-N Seal, 316L Electrode
5VA  Rytton with FKM Seal, 316L Electrode
6FC  PVDF with FFKM Seal, Hastelloy C4 Electrode

B  Range
GPM  N  P  M  R
U1  0.013-0.26  1/4  1/2  --  1/2
U2  0.04-0.8  1/4  1/2  --  1/2
U4  0.13-2.6  3/8  3/4  3/8  1/2
U5  0.2-4.0  3/8  3/4  3/8  1/2
U7  0.4-8.0  1/2  1  1/2  1
U8  0.65-13  1  --  1  1-1/2
U9  1.3-26  1  --  1  1-1/2
U10 2.0-40  1-1/2  --  1-1/2  2
U11 4.0-80  1-1/2  --  1-1/2  2
U12 6.5-130  2  --  2  2-3/4
U13 9.0-180  2  --  2  2-3/4

C  Fitting Set Size (*)
N  NPT female PVC
P  PVC hose barb
M  PVC glue socket
R  NPT female polypropylene

D  Output
F300  Frequency 0-500Hz
F390  User Specified 50-1000Hz full scale
L343  4-20mA
C34N  4-20mA & NPN switch, open collector
C34P  4-20mA & PNP switch, open collector

* PVDF butt weld tube also available for some ranges.