



HIGH ACCURACY MAGNETOSTRICTIVE LEVEL TRANSMITTER FOR EXTERNAL CHAMBER MOUNTING



Accutrak
Model AT200

VISIT OUR WEB SITE AT www.ktekcorp.com ISO9001 Certified

FEATURES

- Designed to Mount Externally to K-TEK KM26 or Other Magnetic Level Gauge
- High Accuracy: .01% of Full Scale
- Simple Calibration: Pushbutton or HART Protocol
- Never Requires Recalibration: Set It & Forget It
- No Drift Due To: Dielectric Constant Changes
Vapor Composition Changes
Temperature Changes
Pressure Changes
- Dual Compartment Housing with Separate Field Terminal Compartment
- Total and/or Interface Level Measurement
- Process Temperature Range: -320° F to 800° F (-196 to 427°C) with options
- Field Replaceable Module
- Built In RFI / EMI Filter

OPTIONS:

- Local Indication with Scrolling LCD Display
- Two Level Outputs
- Temperature Output
- HART Protocol Output
- Honeywell DE Output
- Glass Viewing Window
- 316L SS Enclosure



SPECIFICATIONS

Electronic Transmitter

Housing type	Explosion Proof Epoxy Coated Cast Aluminum, Dual Compartment
Mounting	Stainless steel clamps for KM26 chamber
Measuring Range	1 to 50 ft.
Repeatability	.005% of full scale or 0.015", whichever is greater
Non-Linearity	.01% of full scale or .035", whichever is greater
Accuracy	.01% of full scale or 0.050", whichever is greater
Loop Supply Voltage	13.5 to 36 VDC
Polarity Protection	Diode in series with loop
Output	Standard 4-20 mA _{dc} Manual field calibration via pushbuttons

Dampening	Field adjustable by means of pushbuttons. Range: 0.1 to 36 seconds
Burnout	Jumper selectable upscale (21 mA _{dc}) or downscale (3.6mA _{dc})
Temperature	-40 to 170°F (-40 to 77°C) ambient
Humidity	0 to 100% R.H., non-condensing

Sensor tube

Material 316L Stainless Steel standard

Process Temperature -320 to 800°F (-196 to 427°C) with options

Approvals

Factory Mutual Research Corp. and CSA Canadian Standards Association:

XP / I / 1 / ABCD / T6 Ta = 77°C; DIP / II, III / 1 / EFG / T6 Ta = 77°C

IS / I / 1 / CD / T4 Ta = 77°C—ELE0001 / A (all options except RI analog output)

NI / I / 2 / ABCD / T4

TYPE 4X

CENELEC:

Flameproof: EEx d IIC T6,

Intrinsically Safe: EEX ia IIB T6 (all options except RI analog output)

Ingress protection classification – IP67

ORDERING INFORMATION:

AT200/a/b/c/d/e/f/g/h:

/a Mounting

- /B Bottom Connected Electronic Housing
- /BW Bottom Connected Electronic Housing with Window Cover
- /T Top Connected Electronic Housing
- /TW Top Connected Electronic Housing with Window Cover

/b Transmitter Configuration

- /L Standard Local Transmitter; Process Temperature up to 200°F (93°C) 300°F (149°C) with insulation.
- /L9 Transmitter Mounted to Extended Sensing Tube with 90°, 3" Radius. Required For High Process Temperature up to 300°F (149°C) without insulation, 450°F (232°C) with insulation pad, 800°F (427°C) with KM26 chamber insulation (order insulation pad or KM26 chamber insulation separately).
- /C Offset Transmitter with Vapor Seal for service below ambient. Use with IW probe type.
- /L9C Offset Transmitter with Vapor Seal for service below ambient, mounted to extended sensing tube with 90° radius.

/c Transmitter Housing

- /A Standard Dual Compartment Aluminum Housing
- /S Dual Compartment Stainless Steel Housing

/d Probe Type

- /R1 5/8" OD Probe Standard
- /H2 High Temperature Sensing Tube Option for process temperature above 450°F (232°C) (requires /L9 and KM26 chamber insulation).
- /IW Insulation Well to allow insertion and removal of probe on a cryogenic insulated KM26 without disturbing insulation (this is the preferred configuration for cryogenic service when there is no flange on top of the KM26).

/e Electronic Module with One Analog Output

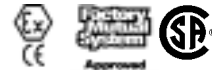
- /X None
 - /M1 One Level
 - /M2 One Level, LCD Indicator
 - /M3 One Level, HART Protocol or Honeywell DE Protocol *
 - /M4A One Level, LCD Indicator, HART Protocol or Honeywell DE Protocol *
 - /M4B Two Levels, LCD Indicator, HART Protocol or Honeywell DE Protocol *
- * Default is HART; Add **D** suffix to module option for Honeywell DE (Class 0 support)

/f Second Analog Output

- /X None
 - /RI Second Electronic Module with One Analog Output and LCD Indicator
- Notes: 1. Available only with HART Protocol modules M4A or M4B
2. Analog Output field selectable to any of the two levels

/g Approvals

- /FM Factory Mutual and CSA Canadian Standard Association
- /CE Cenelec



/h Measuring Length

- /ML Specify the measuring length in inches or mm