

MK100 SERIES



MK100 SERIES

The diaphragm transmits pressure through the Nak filled capillary for high temperature stability. Four active arm wheatstone bridge strain gage ensures high accuracy. The rigid stem makes installation fast and easy.

FEATURES MK100/200

NaK -MERCURY FREE FILL
 Standard 3.33mV/V
 6pin Bayonet Connector
 6" Stem
 18" Flex Hose (MK200)
 0.5% combined error
 80% Output Calibration
 Interchangeable with all Competitor's models
 1000°F (538°C) Rating
 Ranges from 0-300 to 0-30,000psi
 Standard Inconel Diaphragm

MK200 SERIES



MK200 SERIES

SAME AS MK100 PLUS:

Flexible capillary with stainless armour coating. This provides further thermal isolation and installation flexibility.

OPTIONS MK100/200

OUTPUT OPTIONS
 2.5mV/V, 4-20mA, 0-5/0-10 VDC
CONNECTOR OPTIONS
 8pin 6pin-CANNON
 3,4,9,12,18" STEM
 24,30 or 60" Flex Hose (MK200)
OPTIONAL DIAPHRAGMS
 Hastelloy
 Titanium Nitride
 Inconel Tip + Thread
 Option "E" - Epoxy filled can
 Option "W" - Tig Welded Can with Epoxy Fill
SIL2 - Remote+Local Zero (4-20mA)

MKX SERIES



MKX SERIES

SAME AS MK200 PLUS:

Temperature sensor mounted behind diaphragm. This provides temperature and pressure measurement from a single hole. The temperature sensor is field replaceable without removing pressure sensor.

FEATURES MKX

same as MK200 Plus
 Thermocouple J
 Field replaceable

OPTIONS MKX

same as MK200 Plus
 Temperature Sensors
 Thermocouple K
 Pt100 RTD sensor
SIL2 - Remote+Local Zero (4-20mA)

SPECIFICATIONS

MECHANICAL

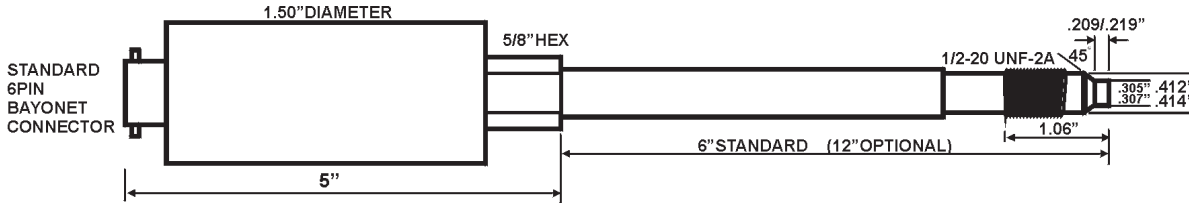
Ranges: 0-300 to 0-30,000psi
Max Error: 1% of Full Scale
Repeatability: +/-0.2%
Overload Capab: 2x Full Scale
Mount Torque: 150in-500 in-lbs

TEMPERATURE

Max Diaph. Temp: 1000°F(538°C)
Zero Shift of Diaph.: 10psi/100°F
Zero Shift of Elect.: 1%/100°F
Max Housing Temp: 250°F(120°C)

ELECTRICAL

Measuring Sensor: 350ohm Wheatstone Bridge
Internal Shunt Cal(2.5 or 3.3mV/V): 80% of FS
Zero&Span Adjust(0-5/10V or 4-20mA): +/-0.15% FS
Excitation: 2.5 or 3.3mV/V(7-12V recommend10V)
 0-10V(14-36V) 0-5V(11-36V)
 4-20mA(14-36V)



ORDER CODE

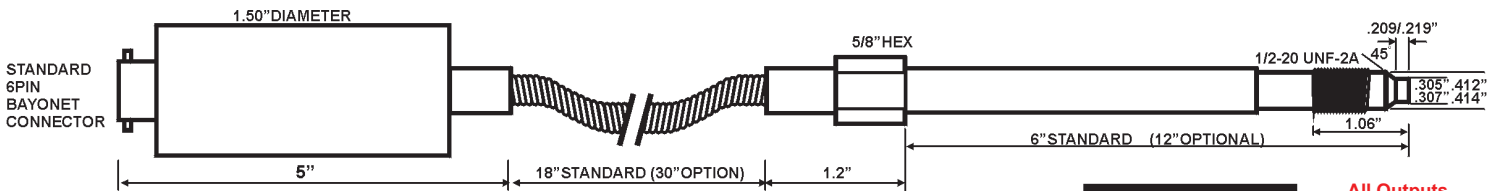
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|---|---|---|--|--|---|---|
| MK1 X | X | - P XX | X | X | X | X |
| 0 - 6"stem A - 3"stem 8 - 8"stem 9 - 9"stem 1 - 12"stem | 1 - 3.3mV/V 2 - 2.5mV/V 4 - 4-20mA 5 - 0-5VDC 6 - 1-5VDC 7 - 0-10VDC E - 4-20mA (4wire) | 1 1.5 2 3 5 7 7.5 10 | M - Psi x 1000 B - Bar x 100 P - MPa K - kg/cm2 | S - 6pin Bayonet G - 6pin Screw 8 - 8pin Screw N - 1/2"NPT+ 36"Teflon | S - Standard Inconel C - Chromium Nitride T - (TiN)Titanium Nitride I - Inconel Tip+Threads H -Hastelloy Tip+Threads D - (TiAlN) Titanium Aluminium Nitride 5 - 5pin (china standard) | - - 1/2"-20UNF M18 - M18x1.5 M10 - M10x1.0 .25 - 0.25% Accuracy E - Epoxy Fill W - Tig Welded Can with Epoxy Fill 3V - Volt Out(3wire) SIL2 - Remote+Local Zero (4-20mA) |

STOCK LIST

All Outputs & Connectors

| PSI | STEM + FLEX |
|-------|-------------|
| 1000 | 6"Stem |
| 1500 | 6" |
| 3000 | 6", 12" |
| 5000 | 6" |
| 7500 | 6" |
| 10000 | 6", 9", 12" |
| 15000 | 6" |

MK200 - NaK - RIGID STEM + FLEX



ORDER CODE

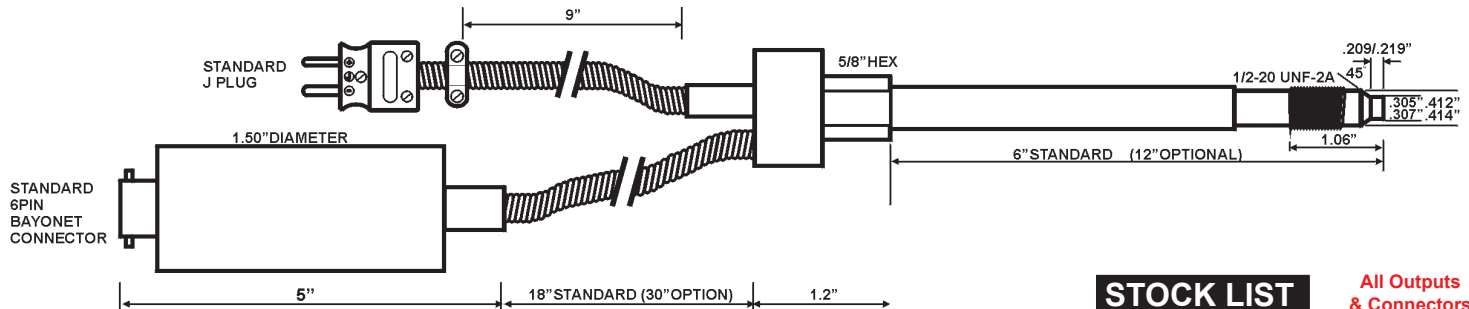
- | | | | | | | |
|---|---|---|--|--|---|---|
| MK2 X | X | - P XX | X | X | X | X |
| 0 - 6"stem+18"Flex 1 - 12"stem+18"Flex 3 - 6"stem+30"Flex 4 - 12"stem+30"Flex 8 - 8"stem+18"Flex 9 - 9"stem+18"Flex A -3"stem+18"Flex | 1 - 3.3mV/V 2 - 2.5mV/V 4 - 4-20mA 5 - 0-5VDC 6 - 1-5VDC 7 - 0-10VDC E - 4-20mA (4wire) | 1 1.5 2 3 5 7 7.5 10 | M - Psi x 1000 B - Bar x 100 P - MPa K - kg/cm2 | S - 6pin Bayonet G - 6pin Screw 8 - 8pin Screw N - 1/2"NPT+ 36"Teflon | S - Standard Inconel C - Chromium Nitride T - (TiN)Titanium Nitride I - Inconel Tip+Threads H -Hastelloy Tip+Threads D - (TiAlN) Titanium Aluminium Nitride 5 - 5pin (china standard) | - - 1/2"-20UNF M18 - M18x1.5 M10 - M10x1.0 .25 - 0.25% Accuracy E - Epoxy Fill W - Tig Welded Can with Epoxy Fill 3V - Volt Out(3wire) SIL2 - Remote+Local Zero (4-20mA) |

STOCK LIST

All Outputs & Connectors

| PSI | STEM + Outputs |
|-------|--|
| 1000 | 6"stem+18" |
| 1500 | 6"stem+18", 6"+30" |
| 3000 | 6"stem+18", 6"+30", 12"+18", 12"+30", 3"+18" |
| 5000 | 6"stem+18", 6"+30", 9"+18", 12"+18", 12"+30" |
| 7500 | 6"stem+18", 6"+30", 12"+18" |
| 10000 | 6"stem+18", 6"+30", 9"+18", 12"+18", 12"+30", 3"+18" |
| 15000 | 6"+18" |

MKX - NaK - PRESSURE + TEMPERATURE



ORDER CODE

- | | | | | | | | |
|-------------------------------------|---|---|---|--|---|--|---|
| MK X | X | - P XX | X | X | X | X | |
| J - T/c J K - T/c K P - PT100 | 0 - 6"stem+18"Flex 1 - 12"stem+18"Flex 3 - 6"stem+30"Flex 4 - 12"stem+30"Flex 8 - 8"stem+18"Flex 9 - 9"stem+18"Flex A -3"stem+18"Flex | 1 - 3.3mV/V 2 - 2.5mV/V 4 - 4-20mA 5 - 0-5VDC 6 - 1-5VDC 7 - 0-10VDC E - 4-20mA (4wire) | 1 1.5 2 3 5 7 7.5 10 | M - Psi x 1000 B - Bar x 100 P - MPa K - kg/cm2 | S - 6pin Bayonet G - 6pin Screw 8 - 8pin Screw N - 1/2"NPT+ 36"Teflon 5 - 5pin (china standard) | S - Standard Inconel C - Chromium Nitride T - (TiN)Titanium Nitride I - Inconel Tip+Threads H -Hastelloy Tip+Threads D - (TiAlN) Titanium Aluminium Nitride | M18 - M18x1.5 M10 - M10x1.0 .25 - 0.25% Accur. E - Epoxy Fill W - Tig Welded Can with Epoxy Fill 3V - Volt Out(3wire) SIL2 - Remote+Local Zero (4-20mA) |

STOCK LIST

All Outputs & Connectors

| PSI | STEM + Outputs |
|------------|-----------------------------|
| 750, 1000 | 6"stem+18" |
| 1500, 3000 | 6"stem+18", 12"+18" |
| 5000 | 6"stem+18", 9"+18", 12"+18" |
| 7500 | 6"stem+18", 12"+18" |
| 10000 | 6"stem+18", 9"+18", 12"+18" |
| 15000 | 6"stem+18" |

SIL2 - 4-20mA c/w Remote + Local Zero

(available on Models : MT, MK, MF, MN)

LOCAL ZERO - ZERO POT



4-20mA c/w SIL2 option

SIL2 Transmitters have the added feature compared to standard Transmitters as they can be rezeroed in two ways; remotely via PLC by shorting the RZERO (F-Orange) and the RCAL (D-Green), or manually via the zero potentiometer.

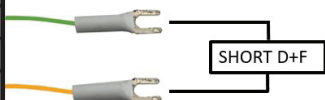
SIL2 feature is available as an add-on for the following models: MT, MK, MF, MN

Transmitters are SIL2(Safety Integrity Level 2) compatible

REMOTE ZERO - CONTACT CLOSURE

4-20mA (SIL2 Option)

| PIN | 4-20mA (2wire) |
|-------------------|---------------------|
| A (red) | SIGNAL (+) |
| B (black) | SIGNAL (-) |
| C (white) | n/a |
| D (green) | REZERO (+) |
| E (blue) | RCAL (+) |
| F (orange) | REZERO(-) / RCAL(-) |



STANDARD FEATURES

- 0.5% / 0.25% Accuracy
- 4-20mA Output
- 0-500 to 0-20000psi Ranges
- 80% Shiunt Calibration
- SIL2 - Safety Integrity Level 2 - Compatibility

PUSHBUTTON - 4-20mA c/w Local Zero

(available on Models : MT, MK, MF, MN)

LOCAL ZERO - PUSHBUTTON



4-20mA c/w PUSHBUTTON option

PUSHBUTTON Transmitters have the added feature compared to standard Transmitters as they can be rezeroed locally via the pushbutton.

PUSHBUTTON feature is available as an add-on for the following models: MT, MK, MF, MN

PUSHBUTTON WIRING

4-20mA (PUSHBUTTON)

| PIN | 4-20mA (2wire) |
|-------------------|----------------|
| A (red) | SIGNAL (+) |
| B (black) | SIGNAL (-) |
| C (white) | n/a |
| D (green) | PUSHBUTTON |
| E (blue) | RCAL (+) |
| F (orange) | RCAL(-) |

STANDARD FEATURES

- 0.5% / 0.25% Accuracy
- 4-20mA Output
- 0-500 to 0-20000psi Ranges
- 80% Shiunt Calibration