Heaters & Sensors Inc.

Melt Pressure Transducers for extruders

Introduction

TP100 Series Melt Pressure Transducer is a fluid filled capillary design. This tried and proven design provides an electronic signal which is proportional to the measured pressure, and allows the transducer to operate at a process temperature up to 750ºF (400ºC). The electronics of each transducer is a Wheatstone Bridge strain gauge insuring high accuracy and reliability.
The TP100 Series Melt Pressure Transducer comes with 6" rigid stem and 6 pin Bayonet connector. PT100 series is the most common style melt pressure transducer configuration.

Features:

Pressure Ranges: 0-10,000 psi (metric range available)
Mounting: 1/2-20 UNF mounting thread
Diaphragm: Standard Inconel
Temperatures: Diaphragm 750ºF (400ºC)
Electronics 225ºF (107ºC)
Accuracy: +/- 0.5% Combined Error
Connector: 6 pin Bayonet Connector
(8 pin option vailable)
Output: 3.3 mV/V (2.5mV/V option available)
Excitation Volt: 10VDC - recommended
Calibration: 80% output calibration

TP100 Series

Benefits

- Significant price/performance advantage over competitor's models
- Direct replacement for competitor's models
- Rigid stem makes installation fast and easy
- Reliable, repeatable and accurate pressure measurements
- wide variety of pressure ranges
- One year warranty

Ordering Guide

TP1 X	X	- P X	X	X	X	X
0 - 6"stem **9** - 9"stem **1** - 12"stem	**1** - 3.3mV/V **2** - 2.5mV/V	**1** **1.5** **3** **5** **7.5** **10** **15** **20**	**M** - Psi x 1000 **B** - Bar x 100 **P** - MPa **K** - kg/cm2	**S** - 6 pin Bayonet **G** - 6 pin Screw **8** - 8 pin Screw **N** - 1/2"NPT+ 36" Teflon	**S** - Standard Inconel **C** - Chromium Nitride **T** - Titanium Nitride **I** - Inconel Tip + Threads **H** - Hastelloy **D** - Diamond Particulite	**-** - 1/2"-20UNF **M18** - M18x1.5 **M10** - M10x1.0 **.25** - 0.25% Accuracy **E** - Epoxy Filled Can **W** - Tig Welded Can with Epoxy

For configurations not listed please contact **SD Heaters**.

Canada # 1-416-459-0543

www.hsi.com

Heaters & Sensors Inc.

Melt Pressure Transducers for extruders

Introduction

TP200 Series Melt Pressure Transducer is a fluid filled capillary design. This tried and proven design provides an electronic signal which is proportional to the measured pressure, and allows the transducer to operate at a process temperature up to 750ºF (400ºC). The electronics of each transducer is a Wheatstone Bridge strain gauge insuring high accuracy and reliability.

The TP200 Series Melt Pressure Transducer, has a 6" rigid stem along with 18" of fluid filled flex capillary for optimal thermal isolation. The PT200 series is the most common style melt pressure transducer configuration.

Features:

Pressure Ranges: 0-10,000 psi (metric range available)
Mounting: 1/2-20 UNF mounting thread
Diaphragm: Standard Inconel
Temperatures: Diaphragm 750ºF (400ºC)
Electronics 225ºF (107ºC)
Accuracy: +/- 0.5% Combined Error
Connector: 6 pin Bayonet Connector
(8 pin option vailable)
Output: 3.3 mV/V (2.5mV/V option available)
Excitation Volt: 10VDC - recommended
Calibration: 80% output calibration

TP200 Series

Benefits

- Significant price/performance advantage over competitor's models
- Direct replacement for competitor's models
- 18" of flexible capillary with stainless armor for optimum thermal isolation
- Reliable, repeatable and accurate pressure measurements
- Ease of installation and calibration
- wide variety of pressure ranges
- One year warranty

Ordering Guide

TP2 X	X	- P X	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	**1** - 3.3mV/V **2** - 2.5mV/V	**1** **1.5** **3** **5** **7.5** **10** **15** **20**	**M** - Psi x 1000 **B** - Bar x 100 **P** - MPa **K** - kg/cm2	**S** - 6 pin Bayonet **G** - 6 pin Screw **8** - 8 pin Screw **N** - 1/2"NPT+ 36" Teflon	**S** - Standard Inconel **C** - Chromium Nitride **T** - Titanium Nitride **I** - Inconel Tip + Threads **H** - Hastelloy **D** - Diamond Particulite	**-** - 1/2"-20UNF **M18** - M18x1.5 **M10** - M10x1.0 **.25** - 0.25% Accuracy **E** - Epoxy Filled Can **W** - Tig Welded Can with Epoxy

For configurations not listed please contact **SD Heaters**.

Canada # 1-416-459-0543

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Melt Pressure Transducers for extruders

Introduction

TPX Series Melt Pressure Transducer is a fluid filled capillary design. This tried and proven design provides an electronic signal which is proportional to the measured pressure, and allows the transducer to operate at a process temperature up to 750ºF (400ºC). The electronics of each transducer is a Wheatstone Bridge strain gauge insuring high accuracy and reliability.
The TPX Series Melt Pressure Transducer, has a 6" rigid stem along with 18" of fluid filled flex capillary for optimal thermal isolation. The temperature sensor is mounted behind the diaphragm which provides melt pressure and temperature from a single hole. The PTX series is the most common style melt pressure transducer configuration.

Features:

Pressure Ranges: 0-10,000 psi (metric range available)
Mounting: 1/2-20 UNF mounting thread
Diaphragm: Standard Inconel
Temperatures: Diaphragm 750ºF (400ºC)
Electronics 225ºF (107ºC)
Accuracy: +/- 0.5% Combined Error
Connector: 6 pin Bayonet Connector
(8 pin option vailable)
Output: 3.3 mV/V (2.5mV/V option available)
Excitation Volt: 10VDC - recommended
Calibration: 80% output calibration

TPX Series

Benefits

- Significant price/performance advantage over competitor's models
- Direct replacement for competitor's models
- Optional Temperature sensor to provide melt pressure and temperature from a single hole
- Reliable, repeatable and accurate pressure measurements
- Ease of installation and calibration
- wide variety of pressure ranges
- One year warranty

Ordering Guide

TPX	X	X - P X	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	**1** - 3.3mV/V **2** - 2.5mV/V **1** **1.5** **3** **5** **7.5** **10** **15** **20**	**M** - Psi x 1000 **B** - Bar x 100 **P** - MPa **K** - kg/cm2	**S** - 6 pin Bayonet **G** - 6 pin Screw **8** - 8 pin Screw **N** - 1/2"NPT+ 36" Teflon	**S** - Standard Inconel **C** - Chromium Nitride **T** - Titanium Nitride **I** - Inconel Tip + Threads **H** - Hastelloy **D** - Diamond Particulite	**-** - 1/2"-20UNF **M18** - M18x1.5 **M10** - M10x1.0 **.25** - 0.25% Accuracy **E** - Epoxy Filled Can **W** - Tig Welded Can with Epoxy

For configurations not listed please contact **SD Heaters**.

Canada # 1-416-459-0543 ***www.hsi.com***

Heaters & Sensors Inc.

Melt Pressure Transmitters

Introduction

TT100 Series Melt Pressure Transducer is a fluid filled capillary design. This tried and proven design provides an electronic signal which is proportional to the measured pressure, and allows the transducer to operate at a process temperature up to 750ºF (400ºC). The electronics of each transducer is a Wheatstone Bridge strain gauge insuring high accuracy and reliability.

The TT100 Series Melt Pressure Transducer comes with 6" rigid stem and 6 pin Bayonet connector. TT100 series is the most common style melt pressure transducer configuration.

Features:

TT100 Series

Pressure Ranges: 0-15,000 psi (metric range available)
Mounting: 1/2-20 UNF mounting thread
Diaphragm: Standard Inconel
Temperatures: Diaphragm 750ºF (400ºC)
Electronics 225ºF (107ºC)
Accuracy: +/- 0.5% Combined Error
Connector: 6 pin Bayonet Connector
(8 pin option vailable)
Output: 4-20mA or 0-10 VDC
Excitation Volt: 24VDC - recommended
Calibration: 80% output calibration

Benefits

- Significant price/performance advantage over competitor's models
- Direct replacement for competitor's models
- Rigid stem makes installation fast and easy
- Reliable, repeatable and accurate pressure measurements
- Zero and Span adjustment
- wide variety of pressure ranges
- One year warranty

Ordering Guide

TT1 X	X	- P X	X	X	X	X
0 - 6"stem **9** - 9"stem **1** - 12"stem	**4** - 4-20mA **5** - 0-5VDC **6** - 1-5VDC **7** - 0-10VDC	**1** **1.5** **3** **5** **7.5** **10** **15** **20**	**M** - Psi x 1000 **B** - Bar x 100 **P** - MPa **K** - kg/cm2	**S** - 6 pin Bayonet **G** - 6 pin Screw **8** - 8 pin Screw **N** - 1/2"NPT+ 36" Teflon	**S** - Standard Inconel **C** - Chromium Nitride **T** - Titanium Nitride **I** - Inconel Tip + Threads **H** - Hastelloy **D** - Diamond Particulite	**-** - 1/2"-20UNF **M18** - M18x1.5 **M10** - M10x1.0 **.25** - 0.25% Accuracy **E** - Epoxy Filled Can **W** - Tig Welded Can with Epoxy

For configurations not listed please contact **SD Heaters**.

Heaters & Sensors Inc.

Melt Pressure Transmitters

Introduction

TT200 Series Melt Pressure Transducer is a fluid filled capillary design. This tried and proven design provides an electronic signal which is proportional to the measured pressure, and allows the transducer to operate at a process temperature up to 750ºF (400ºC). The electronics of each transducer is a Wheatstone Bridge strain gauge insuring high accuracy and reliability.

The TT200 Series Melt Pressure Transducer, has a 6" rigid stem along with 18" of fluid filled flex capillary for optimal thermal isolation. The TT200 series is the most common style melt pressure transducer configuration.

Features:

Pressure Ranges: 0-15,000 psi (metric range available)
Mounting: 1/2-20 UNF mounting thread
Diaphragm: Standard Inconel
Temperatures: Diaphragm 750ºF (400ºC)
Electronics 225ºF (107ºC)
Accuracy: +/- 0.5% Combined Error
Connector: 6 pin Bayonet Connector
(8 pin option vailable)
Output: 4-20 mA or 0-10 VDC
Excitation Volt: 24VDC - recommended
Calibration: 80% output calibration

TT200 Series

Benefits

- Significant price/performance advantage over competitor's models
- Direct replacement for competitor's models
- 18" of flexible capillary with stainless armor for optimum thermal isolation
- Reliable, repeatable and accurate pressure measurements
- Zero and Span adjustment
- Ease of installation and calibration
- wide variety of pressure ranges
- One year warranty

Ordering Guide

TT2 X	X	- P X	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	**4** - 4-20mA **5** - 0-5VDC **6** - 1-5VDC **7** - 0-10VDC	**1** **1.5** **3** **5** **7.5** **10** **15** **20**	**M** - Psi x 1000 **B** - Bar x 100 **P** - MPa **K** - kg/cm2	**S** - 6 pin Bayonet **G** - 6 pin Screw **8** - 8 pin Screw **N** - 1/2"NPT+ 36" Teflon	**S** - Standard Inconel **C** - Chromium Nitride **T** - Titanium Nitride **I** - Inconel Tip + Threads **H** - Hastelloy **D** - Diamond Particulite	**-** - 1/2"-20UNF **M18** - M18x1.5 **M10** - M10x1.0 **.25** - 0.25% Accuracy **E** - Epoxy Filled Can **W** - Tig Welded Can with Epoxy

For configurations not listed please contact **SD Heaters**.

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Heaters & Sensors Inc.

Melt Pressure Transmitters

Introduction

TTX Series Melt Pressure Transducer is a fluid filled capillary design. This tried and proven design provides an electronic signal which is proportional to the measured pressure, and allows the transducer to operate at a process temperature up to 750ºF (400ºC). The electronics of each transducer is a Wheatstone Bridge strain gauge insuring high accuracy and reliability.

The TTX Series Melt Pressure Transducer, has a 6" rigid stem along with 18" of fluid filled flex capillary for optimal thermal isolation. The temperature sensor is mounted behind the diaphragm which provides melt pressure and temperature from a single hole. The TTX series is the most common style melt pressure transducer configuration.

Features:

Pressure Ranges: 0-15,000 psi (metric range available)
Mounting: 1/2-20 UNF mounting thread
Diaphragm: Standard Inconel
Temperatures: Diaphragm 750ºF (400ºC)
Electronics 225ºF (107ºC)
Accuracy: +/- 0.5% Combined Error
Connector: 6 pin Bayonet Connector
(8 pin option vailable)
Output: 4-20 mA or 0-10 VDC
Excitation Volt: 24 VDC - recommended
Calibration: 80% output calibration

TTX Series

Benefits

- Significant price/performance advantage over competitor's models
- Direct replacement for competitor's models
- Optional Temperature sensor to provide melt pressure and temperature from a single hole
- Reliable, repeatable and accurate pressure measurements
- Zero and Span adjustment
- Ease of installation and calibration
- wide variety of pressure ranges
- One year warranty

Ordering Guide

TTX	X	X - P X	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	**4** - 4-20mA **5** - 0-5VDC **6** - 1-5VDC **7** - 0-10VDC **1** **1.5** **3** **5** **7.5** **10** **15** **20**	**M** - Psi x 1000 **B** - Bar x 100 **P** - MPa **K** - kg/cm2	**S** - 6 pin Bayonet **G** - 6 pin Screw **8** - 8 pin Screw **N** - 1/2"NPT+ 36" Teflon	**S** - Standard Inconel **C** - Chromium Nitride **T** - Titanium Nitride **I** - Inconel Tip + Threads **H** - Hastelloy **D** - Diamond Particulite	**-** - 1/2"-20UNF **M18** - M18x1.5 **M10** - M10x1.0 **.25** - 0.25% Accuracy **E** - Epoxy Filled Can **W** - Tig Welded Can with Epoxy

For configurations not listed please contact **SD Heaters**.

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Heaters & Sensors Inc.

Mercury Free Transducers / Transmitters

Introduction

TF100 Series Melt Pressure Transducer is a oil filled capillary designed specially for food, packaging and medical processing applications. This series of Melt Pressure Transducers utilize four active arm Wheatstone Bridge strain gauge insuring high accuracy and reliability.
The TF100 Series Melt Pressure Transducer comes with 6" rigid stem and 6 pin Bayonet connector.

Features:

Pressure Ranges: 0-10,000 psi (metric range available)
Mounting: 1/2-20 UNF mounting thread
Diaphragm: Standard Inconel
Temperatures: Diaphragm 615ºF (323ºC)
Electronics 225ºF (107ºC)
Accuracy: +/- 0.5% Combined Error
Connector: 6 pin Bayonet Connector
(8 pin option avilable)
Output: 3.3 mV/V
Excitation Volt: 10VDC - recommended
Calibration: 80% output calibration

TF100 Series

Benefits

- Significant price/performance advantage over competitor's models
- Direct replacement for competitor's models
- Rigid stem makes installation fast and easy
- Reliable, repeatable and accurate pressure measurements
- wide variety of pressure ranges
- One year warranty

Ordering Guide

TF1 X	X	- P X	X	X	X	X
0 - 6"stem **9** - 9"stem **1** - 12"stem	**1** - 3.3mV/V **2** - 2.5mV/V **4** - 4-20mA **5** - 0-5VDC **7** - 0-10VDC	**1** **1.5** **3** **5** **7.5** **10** **15** **20**	**M** - Psi x 1000 **B** - Bar x 100 **P** - MPa	**S** - 6 pin Bayonet **G** - 6 pin Screw **8** - 8 pin Screw **4** - 4 pin DIN	**S** - Standard Inconel **C** - Chromium Nitride **T** - Titanium Nitride **I** - Inconel Tip + Threads **H** - Hastelloy **D** - Diamond Particulite	**-** - 1/2"-20UNF **M18** - M18x1.5 **M10** - M10x1.0 **.25** - 0.25% Accuracy

For configurations not listed please contact **SD Heaters**.

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Heaters & Sensors Inc.

Mercury Free Transducers / Transmitters

Introduction

TF200 Series Melt Pressure Transducer is a oil filled capillary designed specially for food, packaging and medical processing applications. This series of Melt Pressure Transducers utilize four active arm Wheatstone Bridge strain gauge insuring high accuracy and reliability.

The TF200 Series Melt Pressure Transducer comes with 6" rigid stem along with 18" flexible capillary with SS armor coating and 6 pin Bayonet connector.

Features:

Pressure Ranges: 0-10,000 psi (metric range available)
Mounting: 1/2-20 UNF mounting thread
Diaphragm: Standard Inconel
Temperatures: Diaphragm 615ºF (323ºC)
Electronics 225ºF (107ºC)
Accuracy: +/- 0.5% Combined Error
Connector: 6 pin Bayonet Connector
(8 pin option vailable)
Output: 3.3 mV/V
Excitation Volt: 10VDC - recommended
Calibration: 80% output calibration

TF200 Series

Benefits

- Significant price/performance advantage over competitor's models
- Direct replacement for competitor's models
- 18" of flexible capillary with stainless armor for optimum thermal isolation
- Reliable, repeatable and accurate pressure measurements
- Ease of installation and calibration
- wide variety of pressure ranges
- One year warranty

Ordering Guide

TF2 X	X	- P X	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	**1** - 3.3mV/V **2** - 2.5mV/V **4** - 4-20mA **5** - 0-5VDC **7** - 0-10VDC	**1** **1.5** **3** **5** **7.5** **10** **15** **20**	**M** - Psi x 1000 **B** - Bar x 100 **P** - MPa	**S** - 6 pin Bayonet **G** - 6 pin Screw **8** - 8 pin Screw **4** - 4pin DIN	**S** - Standard Inconel **C** - Chromium Nitride **T** - Titanium Nitride **I** - Inconel Tip + Threads **H** - Hastelloy **D** - Diamond Particulite	**-** - 1/2"-20UNF **M18** - M18x1.5 **M10** - M10x1.0 **.25** - 0.25% Accuracy

For configurations not listed please contact **SD Heaters**.

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Heaters & Sensors Inc.

Mercury Free Transducers / Transmitters

Introduction

TFX Series Melt Pressure Transducer is a oil filled capillary designed specially for food, packaging and medical processing applications. This series of Melt Pressure Transducers utilize four active arm Wheatstone Bridge strain gauge insuring high accuracy and reliability.

The TFX Series Melt Pressure Transducer comes with 6” rigid stem along with 18" flexible capillary with SS armor coating and 6 pin Bayonet connector. The temperature sensor is mounted behind the diaphragm which provides melt pressure and temperature from a single hole.

Features:

Pressure Ranges: 0-10,000 psi (metric range available)
Mounting: 1/2-20 UNF mounting thread
Diaphragm: Standard Inconel
Temperatures: Diaphragm 6150ºF (323ºC)
Electronics 225ºF (107ºC)
Accuracy: +/- 0.5% Combined Error
Connector: 6 pin Bayonet Connector
(8 pin option vailable)
Output: 3.3 mV/V
Excitation Volt: 10VDC - recommended
Calibration: 80% output calibration

TFX Series

Benefits

- Significant price/performance advantage over competitor’s models
- Direct replacement for competitor’s models
- Optional Temperature sensor to provide melt pressure and temperature from a single hole
- Reliable, repeatable and accurate pressure measurements
- Ease of installation and calibration
- wide variety of pressure ranges
- One year warranty

Ordering Guide

TFX	X	X - P X	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	**1** - 3.3mV/V **2** - 2.5mV/V **4** - 4-20mA **5** - 0-5VDC **7** - 0-10VDC **1** **1.5** **3** **5** **7.5** **10** **15** **20**	**M** - Psi x 1000 **B** - Bar x 100 **P** - MPa	**S** - 6 pin Bayonet **G** - 6 pin Screw **8** - 8 pin Screw **4** - 4 pin DIN	**S** - Standard Inconel **C** - Chromium Nitride **T** - Titanium Nitride **I** - Inconel Tip + Threads **H** - Hastelloy **D** - Diamond Particulite	**-** - 1/2"-20UNF **M18** - M18x1.5 **M10** - M10x1.0 **.25** - 0.25% Accuracy

For configurations not listed please contact **SD Heaters**.

Canada # 1-416-459-0543

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Melt Pressure Transducers - NAK Series

Introduction

TK100 Series Melt Pressure Transducer is a NAK filled capillary designed specially for food, packaging and medical processing applications. This series of Melt Pressure Transducers utilize four active arm Wheatstone Bridge strain gauge insuring high accuracy and reliability.
The TK100 Series Melt Pressure Transducer comes with 6" rigid stem and 6 pin Bayonet connector.

Features:

Pressure Ranges: 0-10,000 psi (metric range available)
Mounting: 1/2-20 UNF mounting thread
Diaphragm: Standard Inconel
Temperatures: Diaphragm 615ºF (323ºC)
Electronics 225ºF (107ºC)
Accuracy: +/- 0.5% Combined Error
Connector: 6 pin Bayonet Connector
(8 pin option avilable)
Output: 3.3 mV/V
Excitation Volt: 10VDC - recommended
Calibration: 80% output calibration

TK100 Series

Benefits

- Significant price/performance advantage over competitor's models
- Direct replacement for competitor's models
- Rigid stem makes installation fast and easy
- Reliable, repeatable and accurate pressure measurements
- wide variety of pressure ranges
- One year warranty

Ordering Guide

TK1 X	X	- P X	X	X	X	X
0 - 6"stem **9** - 9"stem **1** - 12"stem	**1** - 3.3mV/V **2** - 2.5mV/V **4** - 4-20mA **5** - 0-5VDC **7** - 0-10VDC	**1** **1.5** **3** **5** **7.5** **10** **15** **20**	**M** - Psi x 1000 **B** - Bar x 100 **P** - MPa	**S** - 6 pin Bayonet **G** - 6 pin Screw **8** - 8 pin Screw **B** - BC Wiring	**S** - Standard Inconel **C** - Chromium Nitride **T** - Titanium Nitride **H** - Hastelloy **D** - Diamond Particulite	**-** - 1/2"-20UNF **M18** - M18x1.5 **M10** - M10x1.0 **.25** - 0.25% Accuracy

For configurations not listed please contact **SD Heaters**.

Canada # 1-416-459-0543

www.hsi.com

Melt Pressure Transducers - NAK Series

Introduction

TK200 Series Melt Pressure Transducer is a oil filled capillary designed specially for food, packaging and medical processing applications. This series of Melt Pressure Transducers utilize four active arm Wheatstone Bridge strain gauge insuring high accuracy and reliability.

The TK200 Series Melt Pressure Transducer comes with 6" rigid stem along with 18" flexible capillary with SS armor coating and 6 pin Bayonet connector.

Features:

Pressure Ranges: 0-10,000 psi (metric range available)
Mounting: 1/2-20 UNF mounting thread
Diaphragm: Standard Inconel
Temperatures: Diaphragm 615ºF (323ºC)
Electronics 225ºF (107ºC)
Accuracy: +/- 0.5% Combined Error
Connector: 6 pin Bayonet Connector
(8 pin option vailable)
Output: 3.3 mV/V
Excitation Volt: 10VDC - recommended
Calibration: 80% output calibration

TK200 Series

Benefits

- Significant price/performance advantage over competitor's models
- Direct replacement for competitor's models
- 18" of flexible capillary with stainless armor for optimum thermal isolation
- Reliable, repeatable and accurate pressure measurements
- Ease of installation and calibration
- wide variety of pressure ranges
- One year warranty

Ordering Guide

TK2 X	X	- P X	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	**1** - 3.3mV/V **2** - 2.5mV/V **4** - 4-20mA **5** - 0-5VDC **7** - 0-10VDC	**1** **1.5** **3** **5** **7.5** **10** **15** **20**	**M** - Psi x 1000 **B** - Bar x 100 **P** - MPa	**S** - 6 pin Bayonet **G** - 6 pin Screw **8** - 8 pin Screw **B** - BC Wiring	**S** - Standard Inconel **C** - Chromium Nitride **T** - Titanium Nitride **H** - Hastelloy **D** - Diamond Particulite	**-** - 1/2"-20UNF **M18** - M18x1.5 **M10** - M10x1.0 **.25** - 0.25% Accuracy

For configurations not listed please contact **SD Heaters**.

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Heaters & Sensors Inc.

Melt Pressure Transducers - NAK Series

Introduction

TKX Series Melt Pressure Transducer is a oil filled capillary designed specially for food, packaging and medical processing applications. This series of Melt Pressure Transducers utilize four active arm Wheatstone Bridge strain gauge insuring high accuracy and reliability.

The TKX Series Melt Pressure Transducer comes with 6” rigid stem along with 18" flexible capillary with SS armor coating and 6 pin Bayonet connector. The temperature sensor is mounted behind the diaphragm which provides melt pressure and temperature from a single hole.

Features:

Pressure Ranges: 0-10,000 psi (metric range available)
Mounting: 1/2-20 UNF mounting thread
Diaphragm: Standard Inconel
Temperatures: Diaphragm 6150ºF (323ºC)
Electronics 225ºF (107ºC)
Accuracy: +/- 0.5% Combined Error
Connector: 6 pin Bayonet Connector
(8 pin option vailable)
Output: 3.3 mV/V
Excitation Volt: 10VDC - recommended
Calibration: 80% output calibration

TKX Series

Benefits

- Significant price/performance advantage over competitor’s models
- Direct replacement for competitor’s models
- Optional Temperature sensor to provide melt pressure and temperature from a single hole
- Reliable, repeatable and accurate pressure measurements
- Ease of installation and calibration
- wide variety of pressure ranges
- One year warranty

Ordering Guide

TKX	X	X - P	X	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	**1** - 3.3mV/V **2** - 2.5mV/V **4** - 4-20mA **5** - 0-5VDC **7** - 0-10VDC	**1** **1.5** **3** **5** **7.5** **10** **15** **20**	**M** - Psi x 1000 **B** - Bar x 100 **P** - MPa	**S** - 6 pin Bayonet **G** - 6 pin Screw **8** - 8 pin Screw **B** - BC Wiring	**S** - Standard Inconel **C** - Chromium Nitride **T** - Titanium Nitride **H** - Hastelloy **D** - Diamond Particulite	**-** - 1/2”-20UNF **M18** - M18x1.5 **M10** - M10x1.0 **.25** - 0.25% Accuracy

For configurations not listed please contact **SD Heaters**.

Canada # 1-416-459-0543

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Heaters & Sensors Inc.

Narrow Transducers / Transmitters

Introduction

TN100 Series Melt Pressure Transducer is a fluid filled capillary design. This tried and proven design provides an electronic signal which is proportional to the measured pressure, and allows the transducer to operate at a process temperature up to 750ºF (400ºC). The electronics of each transducer is a Wheatstone Bridge strain gauge insuring high accuracy and reliability.

The TN100 Series Melt Pressure Transducer is designed for space restricted areas. This transducer features 1/2-20 UNF thread with jam nut & 28" of flexible capillary.

Features:

Pressure Ranges: 0-10,000 psi (metric range available)
Mounting: 1/2-20 UNF mounting thread + jam nut
Diaphragm: Standard Inconel
Temperatures: Diaphragm 750ºF (400ºC)
Electronics 225ºF (107ºC)
Accuracy: +/- 0.5% Combined Error
Connector: 6 pin Bayonet Connector
(8 pin option vailable)
Output: 3.3 mV/V
Excitation Volt: 10VDC - recommended
Calibration: 80% output calibration

TN100 Series

Benefits

• Significant price/performance advantage over competitor's models + Direct replacement for competitor's models

• Good for space restricted areas or for nozzle melt pressure measurement on injection molding machines

• Reliable, repeatable and accurate pressure measurements

• Ease of installation and calibration

• wide variety of pressure ranges

• One year warranty

Ordering Guide

TN1 X	X	- P X	X	X	X	X
0 - 28"Flex **1** - 60"Flex	**1** - 3.3mV/V **2** - 2.5mV/V **4** - 4-20mA **5** - 0-5VDC **7** - 0-10VDC	**1** **1.5** **3** **5** **7.5** **10** **15** **20**	**M** - Psi x 1000 **B** - Bar x 100 **P** - MPa	**S** - 6 pin Bayonet **G** - 6 pin Screw **8** - 8 pin Screw	**S** - Standard Inconel **C** - Chromium Nitride **T** - Titanium Nitride **I** - Inconel Tip + Threads **H** - Hastelloy **D** - Diamond Particulite	**-** - 1/2"-20UNF **M18** - M18x1.5 **M10** - M10x1.0 **.25** - 0.25% Accuracy **F** - Mercury Free

For configurations not listed please contact **SD Heaters**.

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Narrow Transducers / Transmitters

Introduction

TN200 Series Melt Pressure Transducer is a fluid filled capillary design. This tried and proven design provides an electronic signal which is proportional to the measured pressure, and allows the transducer to operate at a process temperature up to 750ºF (400ºC). The electronics of each transducer is a Wheatstone Bridge strain gauge insuring high accuracy and reliability.

The TN200 Series Melt Pressure Transducer is designed for space restricted areas. This transducer features an exposed 10" bare capillary, 1/2-20 UNF thread with jam nut & 18" of flexible capillary with armor.

Features:

Pressure Ranges: 0-10,000 psi (metric range available)
Mounting: 1/2-20 UNF mounting thread + jam nut
Diaphragm: Standard Inconel
Temperatures: Diaphragm 750ºF (400ºC)
Electronics 225ºF (107ºC)
Accuracy: +/- 0.5% Combined Error
Connector: 6 pin Bayonet Connector
(8 pin option vailable)
Output: 3.3 mV/V
Excitation Volt: 10VDC - recommended
Calibration: 80% output calibration

TN200 Series

Benefits

- Significant price/performance advantage over competitor's models
- Direct replacement for competitor's models
- Exposed Capillary allows 1/8" bend radius for mounting in tight spaces.
- Reliable, repeatable and accurate pressure measurements
- Ease of installation and calibration
- wide variety of pressure ranges
- One year warranty

Ordering Guide

TN2 X	X	- P X	X	X	X	X
0 - 10" Bare + 18"Flex **1** - 10" Bare + 30"Flex	**1** - 3.3mV/V **2** - 2.5mV/V **4** - 4-20mA **5** - 0-5VDC **7** - 0-10VDC	**1** **1.5** **3** **5** **7.5** **10** **15** **20**	**M** - Psi x 1000 **B** - Bar x 100 **P** - MPa	**S** - 6 pin Bayonet **G** - 6 pin Screw **8** - 8 pin Screw	**S** - Standard Inconel **C** - Chromium Nitride **T** - Titanium Nitride **I** - Inconel Tip + Threads **H** - Hastelloy **D** - Diamond Particulite	**-** - 1/2"-20UNF **M18** - M18x1.5 **M10** - M10x1.0 **.25** - 0.25% Accuracy **F** - Mercury Free

For configurations not listed please contact **SD Heaters**.

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