Extrusion Melt Pressure Transducers & Transmitters



Melt Pressure Transducers & Transmitters from Skylark incorporate a liquid 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 process temperatures up to 750ºF or 400ºC. The electronics of each transducer are a Wheatstone Bridge-Bonded Strain Gage design, insuring high accuracy, reliablilty, and repeatability.

With 100% form, fit, and functionality, at the most competitive prices, Skylark Melt Pressure Transducers & Transmitters are rapidly becoming the preferred choice of cost conscious Plastics Processors throughout the globe. Skylark Melt Pressure Transducers/Transmitters offer high accuracy, repeatability, industry standard functionality, at prices substantially below the competitors.

SKYLARK
CONTROLS

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Product Overview

Skylark Melt Pressure Transducers & Transmitters are available in two distinct styles.



The **CYR Style Melt Pressure Transducer**, is the classic Melt Pressure Transducer design. The CT style Melt Pressure Transducer comprises a 6" rigid stem, along with 18" of flexible capillary, for optimal thermal isolation.



The **CYRR Style Melt Pressure Transducer**, has only a 6" rigid stem, and is a rigid stem only version of the classic Melt Pressure Transducer.

Skylark Melt Pressure Transducers & Transmitters are available in two distinct accuracy grades. General Purpose Grade feature accuracy (non-linearity) of better than .5% FSO, Laboratory Grade feature accuracy (non-linearity) of better than .25% FSO. All Skylark Melt Pressure Transducers & Transmitters are fully compatible with the industry standard wiring pattern and color coding, as well as offering 100% mechanical compatiblity with existing melt pressure transducers utilizing the 6 pin Bayonet connector.

Product Features

- **Industry standard 80% output calibration.**
- **Fully interchangeable with competitors models without re-wiring - 100% field compatiblilty.**
- **The global leader in price/performance, quality, and delivery.**

General Specifications

Mechanical

Pressure Ranges:	0-1,500 psi to 0-15,000 psi, Metric ranges available
Mounting:	½- 20 UNF thread, M18 X1.5 available
Mounting Torque:	500 inch pounds maximum
Diaphragm Material:	15-5PH Stainless Steel
Overload Capacity:	2 times FSO
Temperature Ratings:	Diaphragm 750ºF, Electronics 225ºF
Accuracy:	General Purpose <.5% FSO Laboratory <.25% FSO
Repeatability:	Better than .15% FSO

Electrical

Type:	Bonded Strain Gage, 4 Leg Wheatstone Bridge
Bridge Resistance:	350 ohm +/- 5%
Connector:	6 pin Bendix type
Output:	3.3mV/Volt, 4-20 mA or 0-10 Vdc
Excitation Voltage:	mV/Volt-10Vdc 4-20mA-24Vdc 0-10Vdc-24Vdc
Internal Calibration:	80% of Full Scale Output
Insulation Resistance:	1,000 Mohms @ 50Vdc
Interconnecting Cable:	25' with mating connector

Ordering Guide

Model Number	Transducer Type
CYR	**Classic Style** - rigid stem with 18” flex armor
CYRR	**Rigid Style** - stem only (no flex armor)
	Rigid Stem Length
3*	3”*
6	6” - standard
12	12”
	Output Type
S	Transducer - 3.3 mV/Volt - standard
MA	Transmitter - 4-20 mA
V	Transmitter - 0-10 Vdc
	Pressure Range (Metric Ranges Available)
-1.5K*	0 - 1,500 psi
-3K	0 - 3,000 psi
-5K	0 - 5,000 psi
-10K	0 - 10,000 psi
-15K	0 - 15,000 psi
	Options
-J	Thermocouple Type “J”
-K*	Thermocouple Type “K”*
-M18*	M18 X 1.5 metric thread in place of 1/2-20 UNF*
-FAxx*	Non-Standard flex armor length (specify in inches)*

* Non-Standard item subject to 3 weeks delivery. All other model variations are available from stock.

Options

Temperature Output:
Type “J “ or Type “K” thermocouple available
Mounting:
½- 20 UNF thread, - standard
M18 X1.5 available
Rigid Stem Length:
6” standard
3” and 12” rigid stem lengths available
Flex Armor Length:
18” standard
lengths to 36” are available
Calibration:
NIST Traceable Calibration Certificate available



CYR Style transducer with thermocouple option.

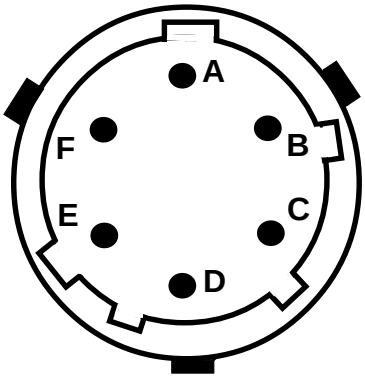
Electrical Connections

mA and Vdc Output

Pin A/Red	Input/Signal (+)
Pin B/Black	Input/Signal (-)
Pin C/White	Input (+) (Vdc)
Pin D/Green	Input (-) (Vdc)
Pin E/Blue	Cal
Pin F/Orange	Cal

Excitation - 24Vdc

6 Pin Connector



mV/Volt Output

Pin A/Red	Signal (+)
Pin B/Black	Signal (-)
Pin C/White	Input (+)
Pin D/Green	Input (-)
Pin E/Blue	Cal
Pin F/Orange	Cal

Excitation - 10Vdc

Melt Pressure Systems



All Skylark Transducers & Transmitters are covered by a full two year manufacturer's warranty. Details available from your authorized distributor. Skylark reserves the right to make changes in product specifications at anytime without prior notice.

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