

THE ADVANTAGES OF TERWIN 2000 SERIES

EXTRUSION PRESSURE / TEMPERATURE TRANSDUCERS

- The Terwin 2000 Series is constructed throughout from stainless steel and do not contain any toxic
 products such as mercury or sodium-potassium. This enables us to apply our transducers in the
 production of food, film and pharmaceutical products.
- Our unique twin tube system overcomes the problems of temperature drift, which has been associated
 with old force rod type transducers and our temperature characteristics are equal to or better than
 transducers that employ mercury columns.
- We offer four different stem lengths in the 2000 series transducers, to suit all sizes of extruders i.e., 3.65", 6.0", 9.0" and 12.0".
- Our Di-Hard™ Diaphragm is both abrasion and corrosion resistant and suitable for temperatures up to 842°F/450° C.
- Our strain gauge assembly (electrical termination head) is rated to 392°F/200°C. Most competitive transducers have a head that is suitable for only 250°F/121°C and this is the reason why our competitors offer transducers with flexible stems, enabling the head to be mounted away from the heat. However, flexible stems with mercury or sodium-potassium fill material are certainly not desirable and if damaged, can render the transducer useless.
- All pressure transducers are available with type 'J' I/C or type 'K' C/A thermocouples for dual pressure and temperature measurement. Also, we can provide at no additional cost, transducers that are calibrated in other units such as kg/cm², bar or Pascals etc.
- We offer extrusion pressure ranges from 0 500 psi through 0 30,000 psi.
- Our standard accuracy is within 0.5% of the full range (typically within 0.25% of full range).
- The 2000 series pressure transducers are mechanically and electrically interchangeable with most other
 competitive products. In most cases it is not necessary to change the cable assembly or the process
 indicator/controller. If you inform us of a competitive product part number, we will be pleased to quote for
 a Terwin equivalent transducer.
- Our transducers are both CE approved and calibrated to National Standards.

Terwin Instruments Ltd



Manufacturers Of Industrial Pressure / Temperature Sensors & Instrumentation

Represented by:



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Customer Service and Product
Quality Are Our No.1 Priority



Description:

The Terwin 2000 series transducers have been designed to meet the most exacting requirements in modern day extrusion technology. Fitted with the unique Di-Hard™ diaphragms, these transducers are suitable for extrudate temperatures up to 450°C / 842°F and are resilient against attack from most abrasive or corrosive products.

The 2000 series incorporates unequalled mechanical and electrical design features to overcome the problems of large zero and span shifts caused by changes in process temperatures. This has only been obtainable in the past with transducers that utilise a liquid filled system incorporating substances such as Mercury or Sodium Potassium. All Terwin 2000 series transducers are constructed throughout from stainless steel and DO NOT employ any toxic substances, thus allowing them to be used on machines involved in the process of food, film or pharmaceutical products.

When it is required to measure temperature as well as pressure, the 2000 series is available with type "J" or "K" integral thermocouples. Standard thermocouples have grounded junctions.

The 2000 series is also available with a variety of head and connection / calibration types.

Advantages:

- ✓ Accuracy ±0.5% (typically ±0.25%).
- √ 4 x thicker Di-Hard™
 abrasion / corrosion
 resistant diaphragm.
- ✓ Stainless steel

 construction throughout.
- Compatible with food, film and pharmaceutical applications.
- ✓ DOES NOT contain

 Mercury, NaK (sodium

 Potassium or any other

 toxic product to

 contaminate the

 extrudate.
- ✓ Compliant with EN50082

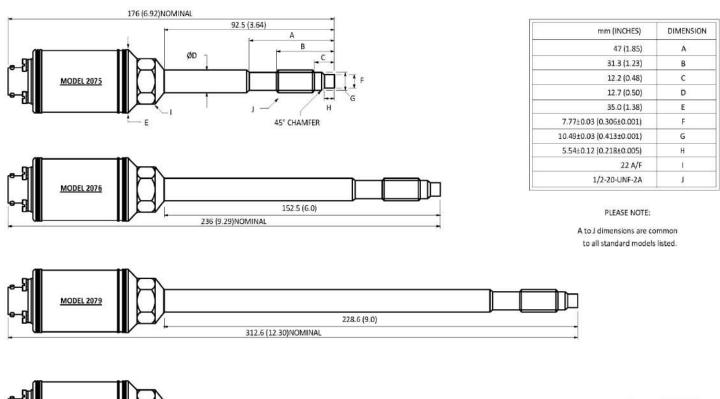
 part 1 and EN55022-1987

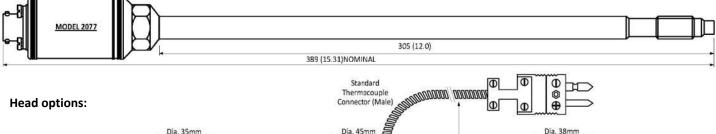
 class A
- ✓ Protected by UK patent
 No. 2,153,538 USA patent
 No. 4,625,559 and
 European patent No.
 0156081.
- ✓ Suitable for extrudate temperatures up to 450°C / 842°F.
- ✓ Interchangeable with most other brands.

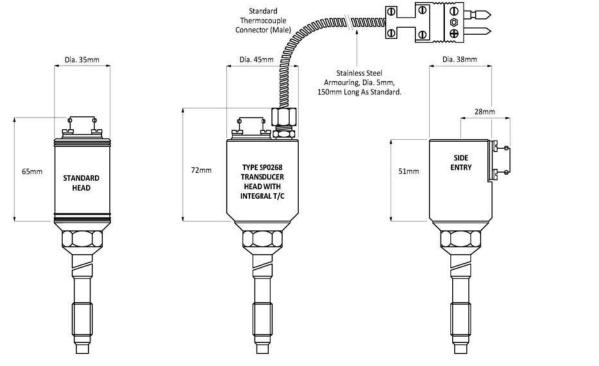


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Stem length options:









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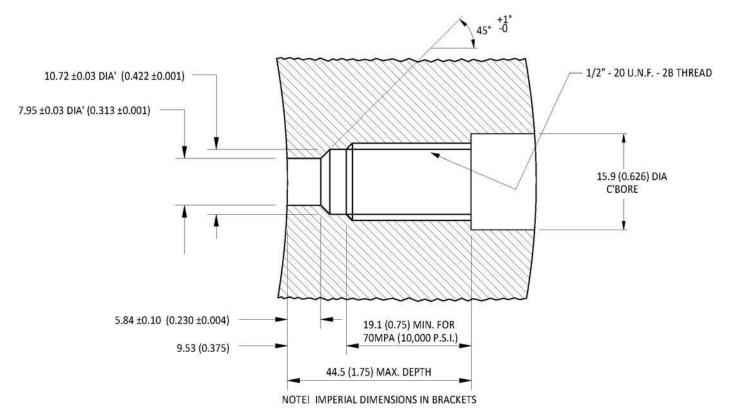
Specifications

Chandard Brassins Barress	psi	0-1,500	0-3,0	0-3,000 0-5,00		0-7,500	0-10,000	0-15,000		
Standard Pressure Ranges:	bar	0-100			-350	0-500	0-700	0-1,000		
Available Pressure Ranges	psi 0-500 thru to 0-30,000									
Available Pressure Ranges	bar				0-35 th	ru to 0-2,000)			
Combined Error	Standard ranges:				Non-sta	Non-standard ranges:				
Combined Error	Within ±0.5%. F.R.O. (Typically ±0.25%)				Within ±	±1%. F.R.O. (Typically ±0.59	%)		
Repeatability	Within ±0.1% F.R.O.									
Resolution	Infinite									
Maximum Pressure:	2 x full range	or 25,000psi (1,700 bar)	which eve	er is less.					
Maximum Pressure.	On 30,000ps	i (2,000bar) se	nsors, the	maximum	pressure	is 35,000psi	(2,400 bar).			
Body Material	17-4PH Stainless steel.									
Diaphragm Material	Terwin Di-Hard ™ Extra Thick, Abrasion / Corrosion Resistant Long Life Diaphragm									
	Titanium Nitride (TN) Hastel			Hastellov	/ C276 (H)	D	Double Chromium Nitride			
				Tidatelloy	(11)		(DCN			
Optional Diaphragm Coatings		I anti-abrasion	ΙΔα	lditional a	nti-corros	ion Out performs TN a		TN and H		
	resistance and to prevent			resistan			coatings in most applications.			
	thread galling.					аррисатіонь.				
Mounting Torque	20ft lbs (27Nm) (240 inch/lbs)									
Standard Thread Size	1/2"-20UNF-									
Available Thread Size Adaptor	M18 x 1.5mm									
Electrical Specifications										
Excitation	5-12V D.C.									
Configuration	Four-arm bonded foil Wheatstone bridge strain gauge									
Bridge Resistance	350Ω ±10%									
Output	3.0mV/V D.C. ±10%									
Zero Balance	±5% F.R.O.									
Internal Negative Shunt Calibration	6-wire 80% F.S.O. ±0.1% - Other calibration types are available.									
	6-Pin	8-Pin				Cannon	Cannon	½"-NPT		
	(D6)	(D8)	9-Pin	12	-Pin	6-Pin	6-Pin	direct		
Electrical Connectors	PT02A-10-	PT02E-12-	(D9)		12)	(G)	(BC)	cable		
	6P	8P	(03)	(0		(Gentran)	(Barber	outlet		
	OF .	<u> </u>					Coleman)	outiet		
Integral Temperature Sensors	"J" I/C "K" C/A									
Maximum Diaphragm Temperature	450°C / 842°	F								
Maximum Strain Gauge Temperature	200°C / 392°F									
Zero Shift Due To Temperature Change	<0.01% F.S.O./°C or <0.02% F.S.O./°F									
Span Shift Due To Temperature Change	<0.01% F.S.O./°C or <0.02% F.S.O./°F									



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Recommended Port Dimensions for $\frac{1}{2}$ "-20UNF Threaded Transducers:



All diameters to be concentric to within 0.05 (0.002) T.I.R.

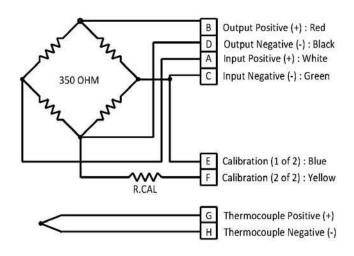
Terwin 2000 Series Standard Wiring Connections:

"D6" PRESSURE TRANSDUCER

Output Positive (+): Red
Output Negative (-): Black
Input Positive (+): White
Input Negative (-): Green

Calibration (1 of 2): Blue
Calibration (2 of 2): Yellow

"D8" PRESSURE / TEMPERATURE TRANSDUCER





Transducers and Transmitters

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Description:

The Terwin 5000 Series melt pressure / temperature transducers / transmitters utilise hydraulic transmission between the sensing diaphragm that is in contact with the melt and the strain gauge assembly that produces an electrical output.

Models are available with either nominal 3.33mV/V output (transducer), 4-20mA DC or 0-10V DC (transmitter) conditioned outputs. All outputs utilise industry standard 80% calibration.

Available pressure ranges are 0-500psi through 0-30,000psi (0-35 bar through 2,000 bar). Other units of pressure measurement, such as kg/cm² or MPa etc., are available if required.

Standard thread size is $\frac{x''}{200}$ NF, however optional European sizes such as M18 x 1.5mm, M14 x 1.5mm and Japanese sizes PF3/8 and PF3/4 are also available.

Available with a selection of stem lengths: 3", 6", 9", 12", 15" & 18".

Optional fill materials are available.

Features:

- Low cost.
- ✓ Proven sensor design.
- ✓ High performance.
- ✓ Accuracy better than ±0.5%.
- ✓ Terwin Extru-Max[™] diaphragm as standard.
- ✓ Internal 80% negative shunt calibration.
- ✓ Compatible with most competitor models

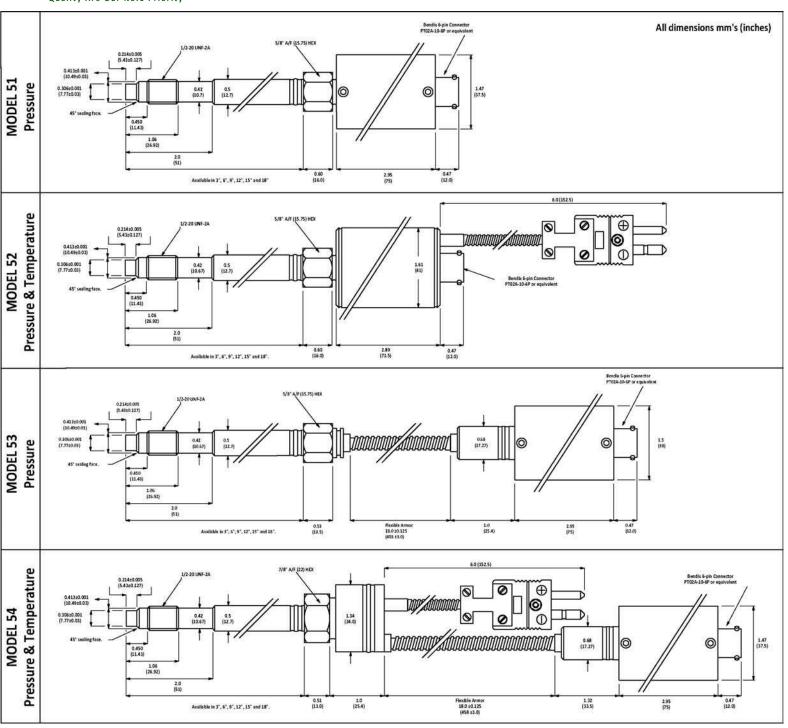
Benefits:

- ✓ Superior abrasion resistance
- Reliable, repeatable pressure measurement
- ✓ Wide variety of pressure ranges
- ✓ Optional stems lengths
- ✓ Optional thread sizes



Transducers and Transmitters

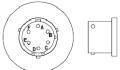
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Industry Standard Connectors:

6-Pin (D6)

(Standard)



8-Pin (D8)









Transducers and Transmitters

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5000 Series Ordering Codes

51 - 6 - M - J - Y - D6 - 7M5 - A - OIL - H - M18 - SPXXX

MODE	L:	CODE:			
51	Rigid stem	51			
52	Rigid stem + temperature sensor	52			
53	Rigid stem + flexible capillary	53			
54	Rigid stem + flexible capillary + temperature sensor	54			
STEM	LENGTH:	CODE:			
3 inche	es (76.2mm)	3			
6 inche	es (152.4mm)	6			
9 inche	es (228.6mm)	9			
12 incl	hes (305.0mm)	12			
15 incl	nes (381.0mm)	15			
18 incl	hes (457.2mm)	18			
Other	(contact sales)	TBA			
PRESS	URE OUTPUT SIGNAL:	CODE:			
3.33m	V/V (standard)	М			
4-20m	-	Α			
0-10V	e + calibration pair) DC				
	e + calibration pair)	V			
	ERATURE SENSOR 64 Series ONLY)	CODE:			
None	•	Х			
"J" I/C (standard)		J			
"K" C/A		K			
PT100		Р			
	OURED CAPILLARY LENGTH 64 Series ONLY)	CODE:			
None		Υ			
18 incl	hes (standard)	18			
36 incl	hes etc	36 etc			
CONNECTOR TYPE:		CODE:			
PT02A-10-6P (6-Pin bayonet)		D6			
PC02E	-12-8P (8-Pin threaded)	D8			
	NPT Threaded Process ctor With Flying Lead	NPT			
Non-St	tandard (contact sales)	ТВА			



OIL -	Н -		M18	-	SPXXX		
PRESSURE RANGE: 0 - (zero to)							
PSI	CODE:	ı	BAR	CODE:			
500psi	5C		35bar		35B		
1,000psi	1M		70bar		70B		
1,500psi	1M5 100)bar	100B		
3,000psi	3M		200)bar	200B		
5,000psi	5M		350)bar	350B		
7,500psi	7M5		500	bar	500B		
10,000psi	10M		700bar		700B		
15,000psi	15M		1,000bar		1000B		
20,000psi	20M		1,500bar		1500B		
30,000psi	30M		2,000bar		2000B		
	Non-standard	t	TBA				
ACCURACY:					CODE:		
±0.5% (standa	ard)				А		
±0.25%					В		
FILL MATERIAL:				CODE:			
Mercury				Left blank			
Silicon Oil				OIL			
Glycerine Oil					GLY		
DIAPHRAGM:					CODE:		
Terwin Extru-Max™ Coating				Left blank			
Hastelloy "C276"				Н			
Other					TBA		
THREAD SIZE:					CODE:		
1/2"-20UNF-2A				Left blank			
M14x1.5mm				M14			
M18x1.5mm				M18			
PF3/8 (G3/8)				G3/8			
PF3/4 (G3/4)				G3/4			
Non-standard (contact sales)				TBA			
SPECIAL CODE			CODE:				
None				Left Blank			
Code to be issued by factory			SPXXX				



Transducers and Transmitters

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Specifications

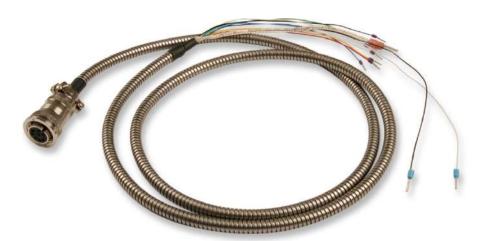
Standard Pressure Ranges:	psi	0-5,000	0-7,500	0-10	,000	0-15,000	
Standard Pressure Ranges:	bar	0-350	0-500	0-70	0	0-1,000	
Available Pressure Ranges	psi 0-500 thru to 0-30,000						
Available Flessure Ranges	bar			0-35 thru to 0-	-2,000		
	Within ±0.5%. F.R.O. (Optional ±0.25%)						
Combined Error	Oil filled units have reduced accuracy of $\pm 1\%$ with optional $\pm 0.5\%$ within standard pressure ranges. Non-standard ranges have an accuracy of $\pm 1.5\%$.						
Repeatability	Within ±0.1% F.R.C).					
Resolution	Infinite						
Maximum Pressure:	2 x full range or 25	,000psi (1,70	00 bar) which eve	r is less.			
iviaximum riessure.	On 30,000psi (2,00	Obar) sensor	rs, the maximum	pressure is 35,00	00psi (2,	400 bar).	
Body Material	17PH4 Stainless steel.						
Diaphragm Material	Terwin Extru-Max ™ Long Life Diaphragm						
Available Fill Materials	Mercury (standard) Silicon Oil			Glycerine Oil			
Mounting Torque	20ft lbs (27Nm) (240 inch/lbs)						
	_						
Standard Thread Size	1/2"-20UNF-2A (standard).						
Available Thread Sizes	M14x1.5mm, M18 x 1.5mm, PF3/8 (G3/8) and PF3/4 (G3/4).						
Electrical Specifications	T						
Excitation	Transducers: 5-12V D.C. Transmitters: 15-30V D.C.						
Configuration	Four-arm bonded foil Wheatstone bridge strain gauge						
Bridge Resistance	350Ω ±10%						
Outputs	Transducers		Transmitters (c	urrent)	Transmitters (voltage)		
- Cutputs	3.33mV/V D.C. ±10)%	4-20mA D.C.			0-10V D.C.	
Zero Balance	Transducers ±10% F.R.O.			Transmitters ±10% adjustable by customer assessable potentiometer			
Internal Negative Shunt Calibration	Transducers 80% F.S.O. ±0.25%			Transmitters 80% F.S.O. ±0.25% adjustable by customer assessable potentiometer			
Electrical Connectors	6-Pin (D6)		8-Pin (D8)		½"-NPT direct cable outlet		
	PT02A-10-6P		PT02E-12-8P				
Integral Temperature Sensors	"J" I/C (standard)		"K" C/A (optio	K" C/A (optional)		PT100 (optional)	
Maximum Diaphragm Temperature	Model No: Mercur			Silicon Fill		Glycerine Fill	
	51/52 350°C /		·	200°C / 392°F		180°C / 356°F	
	53/54 450°C / 842°F			250°C / 482°F 220°C / 428°F			
Maximum Strain Gauge Temperature	Transducers 121°C / 250°F. Transmitters 85°C / 185°F					85°C / 185°F	
Zero Shift Due To Temperature Change	<0.02% F.S.O./°C or <0.01% F.S.O./°F						
Span Shift Due To Temperature Change	<0.02% F.S.O./°C or <0.01% F.S.O./°F						



Cable Assemblies For Terwin Extrusion Pressure / Temperature Transducers & Transmitters

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Description:

Terwin cable assemblies can be used in conjunction with any of our pressure / temperature transducers or transmitters. Made to order, these items are quickly available in either high temperature Teflon sheaths with Teflon sheathed inner cores (maximum temperature rating 260°C/500°F). We also offer a cheaper PVC equivalent (maximum temperature rating 105°C / 221°F). All cables are offered with stainless steel armouring (conduit) that may be fitted to a section of the assembly or the entire length.

With a variety of connectors available, you may choose whether to have tails on one end or another connector.

Advantages:

- Quality cable, increases the life of your assembly and prevents early system failures.
- ✓ High temperature Teflon cable available as standard.
- ✓ Budget PVC option.
- Stainless steel armouring (conduit) optional.
- Quality connectors fitted as standard.
- ✓ Custom cables our speciality.
- Mating connectors available from stock.
- Interchangeable with most other brand sensors.
- ✓ Quality build.

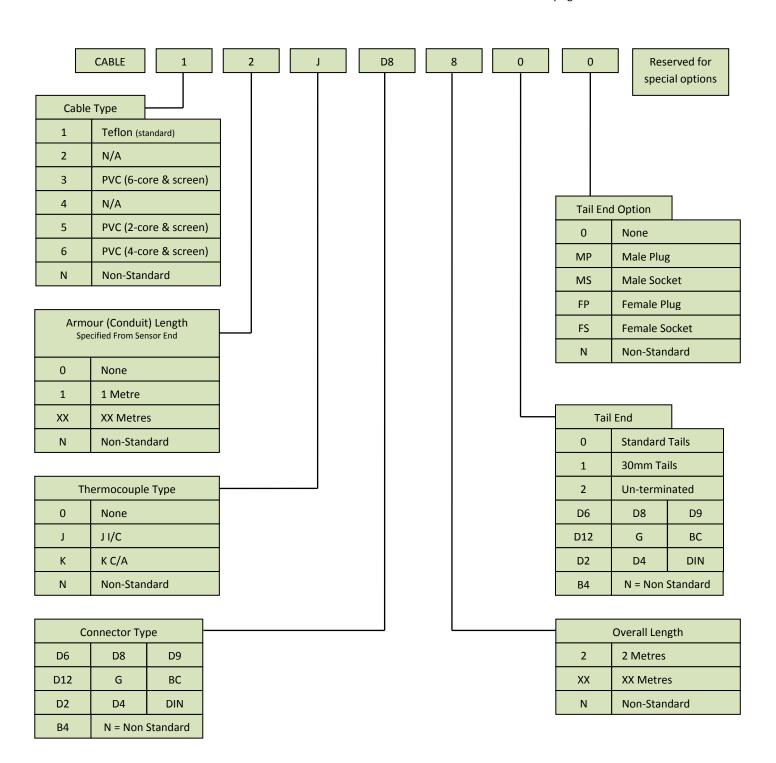


Cable Assemblies For Terwin Extrusion Pressure / Temperature Transducers & Transmitters

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Cable Assembly Part Numbers:

Example: Terwin 8 metre 8 core & screen cable assembly, including twin type J I/C thermocouple extension leads. The first 2 metres to be fitted with stainless steel armoured and fitted with a D8 strain relief connector on one end and flying tails on the other.





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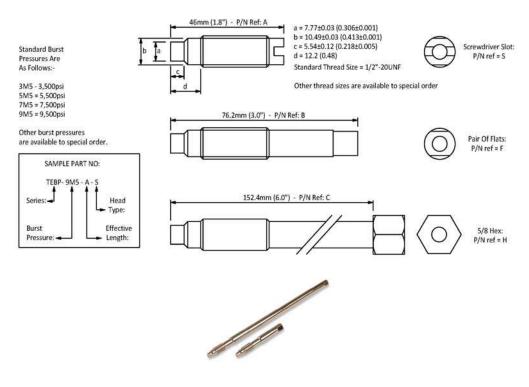
Terwin "TEBP" Series

Extrusion Burst Plugs

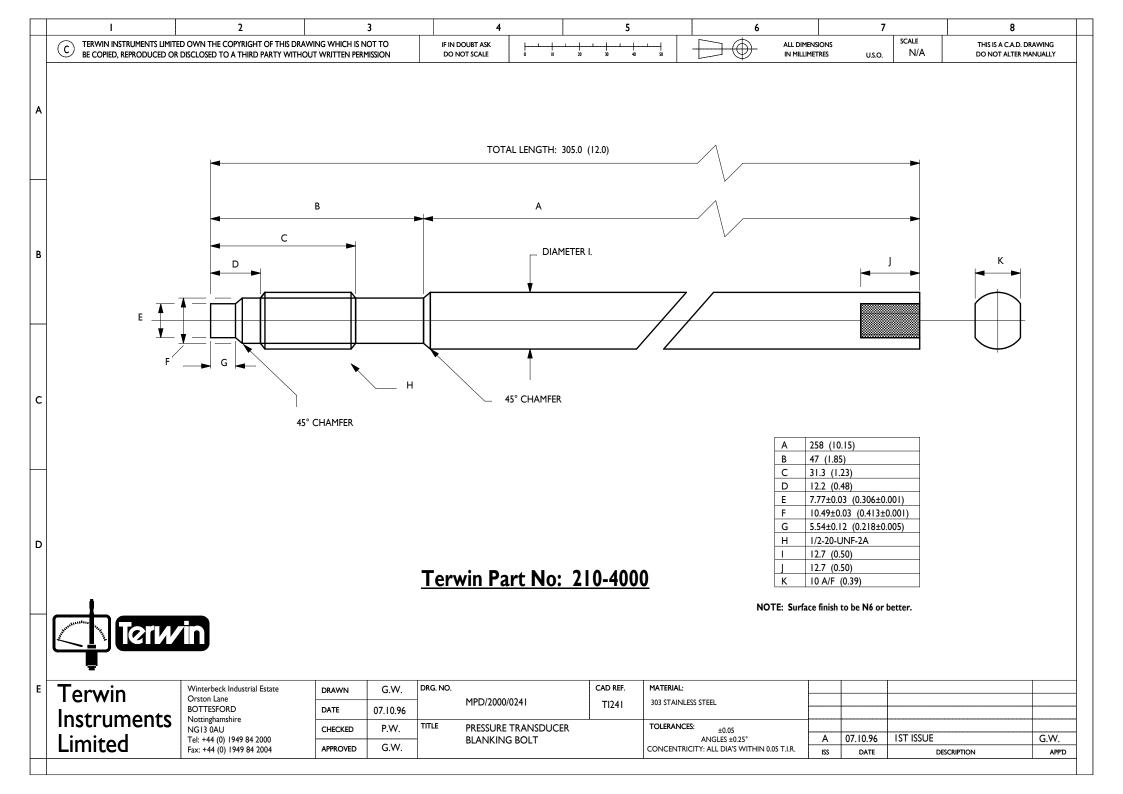


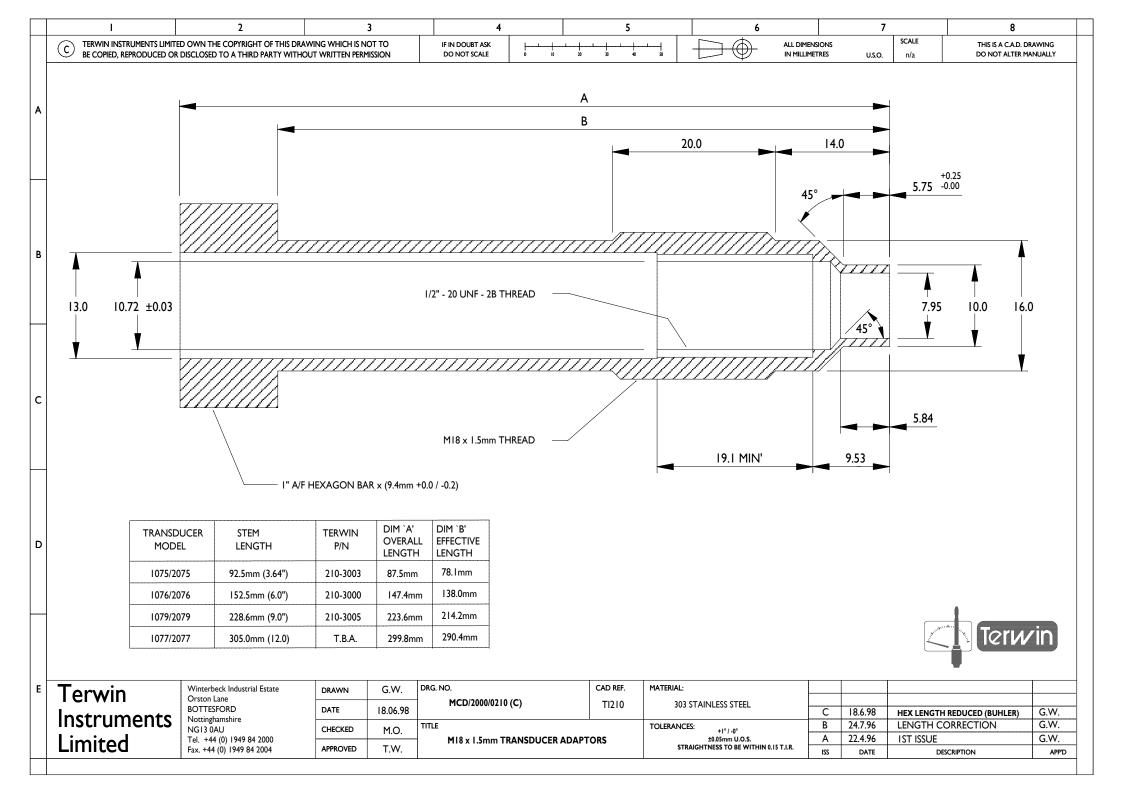
The Terwin TEBP-Series burst plugs are specifically designed for use in extruders where the maximum process temperature does not exceed 410°C (750°F).

The TEBP Series is designed to provide a reliable last line of defence against the build up of excessive pressure. The instantaneously rupture at a predetermined pressure.











Model µ400P multi function process indicator/alarm controller for use with extrusion pressure transducers, hydraulic pressure sensors, load cells, T/C's, RTD's, voltage and current loop inputs.



GENERAL DESCRIPTION

The model μ 400P is a high performance process indicator/alarm controller. User configurable input and output options allow this instrument to be used in a wide range of industrial and research applications, including the measurement of pressure, weight, temperature from T/C's and RTD's, DC voltage or current loop inputs.

When used with extrusion melt pressure sensors that employ 6 wire 80% negative shunt calibration such as the Terwin 2000 series transducers, the μ 400P provides a simple automatic self-calibration feature for both zero and 80% of the applicable pressure range.

The $\mu400P$ is provided with two alarm relays as standard and these may be configured as 'low' or 'high' with direct or inverse action. Additionally, delays in the relays action may be introduced (up to 20 seconds) and the relays may be latched with manual reset through the front key pads. Optional outputs include Modbus/RTU RS-485 serial communications and analog user configurable outputs of 0 - 5V, 0 -10V, 0 - 20mA or 4 - 20mADC. Also, an optional 24VDC output is available for use with transmitters.

This instrument has CE Certification for Safety, EMI Susceptibility, EMI Emission, Harmonics and Voltage Fluctuations.

Features include:

- Programmable range and set point functions.
- · Auto zero and calibration.
- Dual set points with relay output on each.
- Optional analog and Modbus/RTU RS-485 outputs (isolated).
- 5 digit security password protection
- Switch mode power supply for use on 85 to 265V 50/60Hz. Optional 21 to 53V AC/DC supply.
- 1/8th DIN case (96mm wide x 48mm high) with plug-in electronics for ease of service.
- · CE approved



µ400P Technical Specifications

Display 5 digit red LED 13mm (0.5") high, plus 2 alarm warning indicators.

Indicator Accuracy

Better than +/- 0.25% of full scale value

Inputs Strain gauge: 350 ohms – gauge excitation 10VDC @ 100mA, DC voltage: 0-5 and 0-10V (Input impedance >1 M Ω), Current loop: 0-20 and 4-20mA

(150 Ω load), Thermocouples: Type 'J' 0 - 600°C or 1112°F, Type 'K' 0 - 1200°C or 2192°F, Type 'L' 0 - 600°C or 1112°F, Type 'N' 0 - 1200°C or 2192°F, Type 'R' 0 - 1600°C or 2912°F, Type 'S' 0 - 1600°C or 2912 °F, Type 'T' 0 - 400°C or 752°F. PT100 3wire: -99.9 to +200°C or -150 to +392°F and -200 to +600°C or -328 to

+1112°F.

Decimal Point Programmable through front key pads. (Linear inputs only).

Input Sensitivity

Applicable to extrusion pressure transducers only: 1mV/V to 3.7mV/VDC.

Calibration Automatic zero and span calibration for melt pressure transducers is provided

through the front keypads. For other sensors, please consult the instruction

manual.

Excitation Voltage 10VDC

Setpoint Relays - Alarms 2 SPST relays rated at 1A @250VAC (resistive load). Configurable through front

keypads.

Analog Outputs Optional 0 – 5V, 0 – 10V, 0 – 20mA and 4 – 20mA. User selectable through front

keypads and DIP switches.

Serial Communications Optional MODBUS/RTU™ protocol.

Transmitter Supply Optional 24VDC (40mA).

Power Supply 85 – 265V 50/60Hz or optional 21 to 53VAC/VDC.

Operating Temperature 0 - 50°C

Storage Temperature -10 to +60°C

Relative Humidity 0 to 95% non condensing.

Case ABS self extinguishing.

Weight 220 grams

Dimensions 96mm wide x 48mm high x 98mm deep (3.78" x 1.89" x 3.86")

Mounting/Panel cutout Rear panel mounting brackets. 91.5mm w x 45.5mm h +/- 0.5mm (3.6" x 1.79")

+/- 0.020"

Protection IP50

CE Certification Safety, EMI Susceptibility, EMI Emission, Harmonics and Voltage Fluctuations.



Represented by:



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Model µ500PT dual channel process indicator/alarm controller. Applications include the simultaneous measurement of pressure and temperature on extruders when fitted with Terwin 2000 series transducers.



GENERAL DESCRIPTION

The model μ 500PT is a high performance dual channel process indicator/alarm controller, which can measure and display two process variables simultaneously. A typical application, is to use this instrument with a Terwin 2000 series extrusion pressure / temperature transducer which incorporates an integral thermocouple.

Channel 1 can be configured for process or temperature inputs and the 2nd channel for strain gauge applications. When used with extrusion melt pressure transducers that employ 6 wire 80% negative shunt calibration, the $\mu500PT$ provides a simple automatic self-calibration feature for both zero and 80% of the applicable pressure range.

The $\mu500PT$ is provided with two alarm relays as standard and these may be directed to channels 1 or 2 as required. Both relays may be configured as 'low' or 'high' with direct or inverse action and two LED indicators provide relay status. Additionally, delays in the relays action may be introduced (up to 20 seconds) and the relays may be latched with manual reset through the front key pads.

Optional outputs include Modbus/RTU RS-485 serial communications and user configurable analog outputs of 0 – 5V, 0 – 10V, 0 – 20mA or 4 – 20mADC. Also, an optional 24VDC output is available for use with transmitters.

This instrument has CE Certification for Safety, EMI Susceptibility, EMI Emissions, Harmonics and Voltage Fluctuations.

Features include:

- Programmable range and set point functions.
- Auto zero and calibration for strain gauge pressure transducers.
- Dual set points with relay output on each.
- Optional analog and Modbus/RTU RS-485 outputs (isolated).
- 5 digit security password protection
- Switch mode power supply for use on 85 to 265V 50/60Hz. Optional 21 to 53V AC/DC supply.
- 1/8th DIN case (96mm wide x 48mm high) with plug-in electronics for ease of service.
- CE approved



μ500PT Technical Specifications

Inputs

DisplayBoth channels 1 & 2 utilize a red LED display with a character height of 10mm (0.394") plus 2 warning indicators.

(0.374) plus 2 warning indicator

Indicator Accuracy Better than +/- 0.25% of range.

2 independent configurable inputs. Channel 1 is allocated for process and temperature inputs and channel 2 for strain gauge applications. Configurable inputs include: **Strain gauge**: 350 ohms – gauge excitation 10VDC @ 100mA, **DC Voltage**: 0-5 and 0-10V (input impedance > $1M\Omega$), **Current loop**: 0-20 and 4-20mA (150Ω load), **Thermocouples**: Type 'J' $0-600^{\circ}$ C or 1112° F, Type 'K' $0-1200^{\circ}$ C or 2192° F, Type 'L' $0-600^{\circ}$ C or 1112° F, Type 'N' $0-1200^{\circ}$ C or 2192° F, Type 'S' $0-1600^{\circ}$ C or 2192° F, Type 'T' $0-400^{\circ}$ C or 752° F. **PT100 3 wire**: - 99.9 to 200.0° C, or -150 to $+392^{\circ}$ F and -200 to $+600^{\circ}$ or -328 to $+1112^{\circ}$ F.

Input Sensitivity Applicable to extrusion pressure transducers only: 1mV/V to 3.7mV/V.

CalibrationAutomatic zero and span calibration for melt pressure transducers is provided through the front keypads. For other sensors, please consult the instruction

manual.

Excitation Voltage 10VDC

Setpoint Relays - Alarms 2 SPST relays rated at 1A @ 250VAC (resistive load). Configurable through front

keypads.

Analog Outputs Optional 0 – 5V, 0 – 10V, 0 – 20mA and 4 – 20mA. User selectable through front

keypads and DIP switches.

Serial Communications Optional MODBUS/RTU™ protocol.

Transmitter Supply Optional 24VDC (40mA).

Power Supply 85 - 265V 50/60Hz or optional 21 – 53VAC/DC

Operating Temperature 0 - 50°C

Storage Temperature -10 to +60°C

Relative Humidity 0 – 95% non condensing

Case ABS self extinguishing

Weight 240gms

Dimensions 96mm wide x 48mm high x 98mm deep (3.78" x 1.89" x 3.86").

Mounting/Panel cutout Rear panel mounting brackets. 91.5mm w x 45.5mm h +/-0.5mm (3.6" x 1.79) +/-

0.020

Protection Protection IP50

CE Certification Safety, EMI Susceptibility, EMI Emission, Harmonics and Voltage Fluctuations.



Represented by



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