



# TEL-TRU MANUFACTURING CO.

*World-Class Thermometers*

*Thermometers • Pressure Gauges • Transmitters • Accessory Products*

408 St. Paul Street, Rochester, New York 14605  
Phone: 585-232-1440 • 800-232-5335  
Fax: 585-232-3857 • E-mail: [info@teltru.com](mailto:info@teltru.com) • Web: [www.teltru.com](http://www.teltru.com)

## OEM Pressure Transmitter

## Model P133

Model P133 pressure transmitters are intended for use in most diversified and severe applications. The sensing element is based on thin film technology, which is ideal for use in hydraulic systems, static as well as mobile, refrigeration, water etc..

- Thin film technology
- Gauge and absolute pressures
- Wetted parts 17-4 PH stainless steel
- Compensated range – 40°F...220°F (-40...105°C)
- Global error  $\pm 0.5\%$  F.S.
- Pressure range –30”Hg/+15 to 30,000PSI
- Robust construction



### Specifications (75°F)

#### Pressure Ranges :

0... 10 PSI to 30,000 PSI  
compound pressure –30”Hg+ 15 PSI to 225 PSI

#### Output signal / supply voltage:

**P133 A:** 4 – 20 mA, 2 – wire 12...30 Vdc  
**P133 K:** 0 – 10 Vdc, 3 – wire 12...30 Vdc  
**P133 B:** 0 – 5 Vdc, 3 – wire 8...30 Vdc  
**P133 D:** 0 – 20 mA, 3 – wire 9...30 Vdc  
**P133 J:** 0.5 – 4.5V, 3 – wire 8...30 Vdc

#### Insulation:

> 100 M $\Omega$  at 50 Vdc

#### Load impedance (+ M/ - M) :

**P133 J:**  $\geq 2,5$  k $\Omega$                       **P133 D:**  $(U - 9) / 28 =$  k $\Omega$   
**P133 B:**  $\geq 2,5$  k $\Omega$                       **P133 K:**  $\geq 5,0$  k $\Omega$   
**P133 A:**  $(U - 12) / 20 =$  k $\Omega$

#### Electromagnetic compatibility:

- Emission to DIN EN 55011: < 30 dB $\mu$ V/m
- Immunity to DIN EN 61000-4-3: 25 V / m

#### Global error (linéarity, hysteresis et repeatability) :

Typically:  $\pm 0.3\%$  FS (reference BFSL)  
Max.:  $\pm 0.5\%$  FS (reference BFSL)

#### Protection rating to DIN 40 050:

IP65 – with DIN plug, cable outlet, M12....  
others on request

#### Temperature limits :

- ambient: - 40 to 220°F (-40 to 105°C)
- fluid: - 40 to 220°F (-40 to 105°C)
- storage: - 40 to 220°F (-40 to 105°C)

#### Compensated temperature range :

- 40 to 220°F (-40 to 105°C) (zero and span)

#### Temperature coefficient (zero and span):

Typically: 0.015 % FS / K  
Max: 0.025 % FS / K

#### Wetted parts :

Stainless steel 17 – 4 PH

#### Case :

Stainless steel 1.4301 (304)

#### Hydraulic connection :

Standard: G ¼ to DIN 3852 (hydraulic)  
Optional: ¼ NPT, others on request

#### Electric connection :

Standard: mini DIN 43650 – C or M12  
Optional: 1 m cable, DIN 43650 - A

#### Response time (10...90% FS) :

< 1 ms

#### Vibration resistance :

according IEC 68-2-6 et IEC 68-2-32: 20 g

#### Shock resistance :

according IEC 68-2-32: 1 m falls on steel floor



**TEL-TRU  
MANUFACTURING CO.**

*World-Class Thermometers*

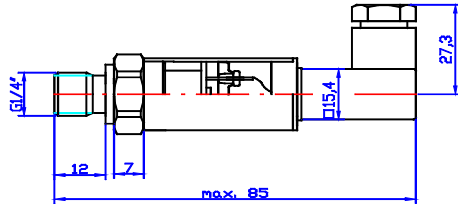
*Thermometers • Pressure Gauges • Transmitters • Accessory Products*

408 St. Paul Street, Rochester, New York 14605  
 Phone: 585-232-1440 • 800-232-5335  
 Fax: 585-232-3857 • E-mail: [info@teltru.com](mailto:info@teltru.com) • Web: [www.teltru.com](http://www.teltru.com)

**OEM Pressure Transmitter**

**Model P133**

Dimensions in mm with DIN – C connector



weight approx. 3.17 oz.  
 hex .866" (22 mm)  
 body Ø .866" (22mm)

How to order: **P133** - [ ] - [ ] - [ ] - [ ] - [ ] - [ ] - **X**

Model	Standard	P133						
<b>Output signal</b>								
4...20 mA			<b>A</b>					
0...10 V			<b>K</b>					
0...5 V			<b>B</b>					
0...20 mA			<b>D</b>					
0.5...4.5 V			<b>J</b>					
<b>Accuracy</b>								
0.50%						<b>2</b>		
0.25%						<b>3</b>		
<b>Pressure range</b>								
see adjacent table								
<b>Mode</b>								
Gage Pressure Ref.							<b>G</b>	
Absolute Pressure Ref.							<b>A</b>	
<b>Process connection</b>								
G 1/4 DIN3852								<b>47</b>
1/4 NPT								<b>01</b>
<b>Electrical connection</b>								
Plug DIN 43650 - C								<b>D100</b>
1 m cable								<b>A403</b>
M12, 4 - pin								<b>F200</b>
Plug DIN 43650 - A								<b>D200</b>
<b>Options</b>								

**Pressure ranges and code**

Code	bar	code	psi
N1B	-1/0.6	Z1A	-30"Hg/15
W2B	-1/1.5	Z2A	-30"Hg/30
W4B	-1/3	Z3A	-30"Hg/60
W5B	-1/5	Z4A	-30"Hg/100
W7B	-1/9	U6A	-30"Hg/150
G8B	-1/15	Q7A	-30"Hg/225
G7B	-1/24	B4A	0 / 10
G9B	-1/39	B7A	0 / 15
G6B	0/0.6	C4A	0 / 25
A4B	0/1	C6A	0 / 30
A5B	0/1.6	D4A	0 / 50
A7B	0/2.5	D6A	0 / 60
A9B	0/4	D9A	0 / 100
B2B	0/6	E3A	0 / 150
B4B	0/10	E5A	0 / 200
B8B	0/16	E7A	0 / 250
C4B	0/25	E8A	0 / 300
D1B	0/40	F3A	0 / 500
D6B	0/60	F4A	0 / 600
D9B	0/100	F6A	0 / 750
E4B	0/160	F8A	0 / 1,000
E7B	0/250	H2A	0 / 1,500
F2B	0/400	H5A	0 / 2,000
F4B	0/600	H9A	0 / 3,000
F8B	0/1000	J4A	0 / 4,000
H3B	0/1600	J8A	0 / 5,000
H5B	0/2000	K1A	0 / 6,000
		K2A	0 / 7,500
		Q6A	0 / 9,000
		K4A	0 / 10,000
		K7A	0 / 15,000
		K8A	0 / 20,000
		L1A	0 / 25,000
		L2A	0 / 30,000

overpressure 1.5x

burst pressure 3 x