

Data Sheet

T5500E Process Gauge with Integrated Pressure Transmitter

FEATURES

- **PLUS!™** Performance dampens vibration, shock and pulsation effects
- Rugged design
- Easily adjusted micrometer pointer
- Integrated pressure transmitter

TYPICAL USES

- Refineries
- Pulp and paper
- Power plants
- Pressure measurement
- Monitoring & control

PRODUCT SPECIFICATIONS

Temperature Effects:	+/-0.3%/ 10K from 0/50 °C (32/122 °F)
Accuracy:	0.5% of span
Response Time:	≤ 1 ms
Repeatability:	≤ +/-0.3% Compound F.S
Range:	-30" Hg/0 to 0/20,000 psi (-1/0 to 0/1600 bar)

MECHANICAL SPECIFICATIONS

Size:	100 mm (4")
Sensor Material:	17-4PH® Stainless steel
Process Connection Location:	Lower
Rating:	IP65
Process Connection Size:	¼ NPT Male, ½ NPT Male
Case Style:	Open front with rear blowout disk
Movement:	Adjustable
Window Material:	Safety glass
Dial:	Aluminum
Weight:	2.68 lbs (1.0 kg)
Vent Plug:	Top
Pointer:	Aluminum (STD.), Micrometer Adjustable (OPT.)
Weather Protection:	IP65
Dampening Options:	Performance PLUS!™ , throttle screw, dampeners, and snubbers

WETTED COMPONENTS

Bourdon Tube	Process Connection	Joints
316L SS, Sensor (17-4 PH® SS)	316 SS	Welded

NON-WETTED COMPONENTS

Case	Ring	Back Cover
304 SS	Bayonet, 304 SS	Stainless Steel



T5500E
4" dial size

KEY BENEFITS

- IP65 Protection
- Suitable for aggressive environment and process fluids

ELECTRICAL SPECIFICATIONS

Power Supply Requirements:	Supply Voltage: 12-30 Vdc
Supply Current:	Maximum 20 mA
Output Signal:	4-20 mA
Isolation Voltage:	350 Vac
Max. Loop Resistance:	≤ (UB - 9.5 V)/0.02 A
Case & Electrical Termination Isolation:	> 1 M ohm @ 50 Vdc

MIN/MAX TEMPERATURE LIMITS

Version	Ambient	Process	Storage
Dry	-4 °F to 158 °F (-20 °C to 70 °C)	-13 °F to 185 °F (-25 °C to 85 °C)	-40 °F to 185 °F (-40 °C to 85 °C)

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ORDERING CODE	Example:	10T5500E	S	D	02	L	F3	15#	XC4
Dial Size/Model Code									
10T5500E - 100 mm 304 SS case, open front with integrated transmitter		10T5500E							
System (tube and process connection)									
S - 316L Stainless steel			S						
Case Design									
D - Dry				D					
Process Connection Sizes									
02 - ¼ NPT Male					02				
04 - ½ NPT Male									
Process Connection Location									
L - Lower						L			
Electrical Terminations									
F3 - Type B Universal box cable connector (left side mount)							F3		
M1 - DIN EN 175301-803 angle connector (back mount)									
M2 - DIN EN 175301-803 angle connector (left side mount)									
Range (coding examples only, see range table on page 3 for all standard ranges)									
Single Scales									
15# - 15 psi								15#	
1KG - 1 kg/cm ²									
1BR - 1 bar									
160KP - 160 kilopascal									
Options (if choosing an option(s) must include an "X")									
C4 - Traceable calibration certificate									X_C4
LL - PLUS! ™ Performance									
NZ - PLUS! ™ Performance, silicone free									
MP - Micrometer adjustable									
SH - Red set hand, stationary									
FF - Front flange with M1 connection only									
OS - Overload stop									
VS - Underload stop									
SG - Safety glass									
PD - Acrylic window									
YW - 316L Stainless steel case									
NH - Stainless steel tag wired to case									
TU - Throttle plug									

When selecting a diaphragm seal or isolation ring, refer to the [Min/Max Guide](#) for compatibility with this gauge or scan the QR code to the right.



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STANDARD PRESSURE RANGE					
	psi	bar	kPa	mPa	kg/cm ²
Vacuum	30IMV	N1BR	N100KP	N1MP	N1KG
	–	N1/0.6BR	N100/60KP	0.1/0.06MP	N1/0.6KG
	V/15#	–	–	–	–
Compound	–	N1/1.5BR	N100/150KP	N0.1/0.15MP	N1/1.5KG
	V/30#	–	–	–	–
	–	N1/3BR	N100/300KP	N0.1/0.3MP	N1/3KG
	V/60#	–	–	–	–
	–	N1/5BR	N100/500KP	N0.1/0.5MP	N1/5KG
	V/100#	–	–	–	–
	–	N1/9BR	N100/900KP	N0.1/0.9MP	N1/9KG
Positive Pressure	15#	1BR	100KP	0.1MP	1KG
	20#	–	–	–	–
	–	1.6BR	160KP	0.16MP	1.6KG
	30#	–	–	–	–
	–	2.5BR	250KP	0.25MP	2.5KG
	60#	4BR	400KP	0.4MP	4KG
	–	6BR	600KP	0.6MP	6KG
	100#	–	–	–	–
	120#	–	–	–	–
	–	10BR	1000KP	1MP	10KG
	160#	–	–	–	–
	200#	–	–	–	–
	–	16BR	1600KP	1.6MP	16KG
	300#	–	–	–	–
	–	25BR	2500KP	2.5MP	25KG
	400#	–	–	–	–
	500#	–	–	–	–
	600#	40BR	4000KP	4MP	40KG
	800#	–	–	–	–
	–	60BR	6000KP	6MP	60KG
	1000#	–	–	–	–
	1500#	100BR	10000KP	10MP	100KG
	2000#	–	–	–	–
	–	160BR	16000KP	16MP	160KG
	3000#	–	–	–	–
	–	250BR	25000KP	25MP	250KG
	4000#	–	–	–	–
5000#	–	–	–	–	
6000#	400BR	40000KP	40MP	400KG	
8000#	–	–	–	–	
–	600BR	60000KP	60MP	600KG	
10000#	–	–	–	–	
15000#	1000BR	100000KP	100MP	1000KG	

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DIMENSIONS in [] are millimeters

For reference only, consult Ashcroft for specific dimensional drawings

Electrical Connection	A	B	ØC
F3	5,47 [139]	2,90 [73,6]	0,28 ... 0,51 [Ø7 ... 13]
M2	5,59 [142]	3,17 [80,5]	0,24 ... 0,39 [Ø6 ... 10]

Electrical Connection

