



US300

SPECIFICATIONS

- OEM and End User
- High Accuracy
- Compact Package
- Wide Temperature Range

The low cost US300 Series incorporates stainless steel isolation, and provides a wide choice of standard pressure ranges and electrical outputs in a very compact package. This product uses MEAS' UltraStable™ technology that provides stability over a wide temperature range, performance previously available only in much higher priced sensors. The modular design is adaptable to a wide variety of pressure ports and electrical connectors. Standard outputs include 0 to 10mV/V, 0.5 to 4.5V ratiometric, 1 to 5V regulated and 4 to 20mA current loop.

FEATURES

- ±0.1% Accuracy
- -40°C to +105°C Operating Temperature Range
- 100% Stainless Steel 316L Isolation
- Wide Variety of Pressure Ranges and Electrical Outputs
- Low Cost and Compact Package
- UltraStable[™] Technology

APPLICATIONS

- Refrigeration and HVAC Controls
- Compressed Gases
- Process Control
- Water Pressure Monitoring

STANDARD RANGES

Range	psig	psia	Range	Barg	Bara
0 to 015	•	•	0 to 001	•	*
0 to 030	*	*	0 to 002	*	•
0 to 050	*	*	0 to 3.5	*	•
0 to 100	*	*	0 to 007	*	•
0 to 300	*	*	0 to 020	*	•
0 to 500	*	*	0 to 035	*	*
0 to 01k	*	*	0 to 070	*	•
0 to 03k	*	*	0 to 200	*	•
0 to 05k	*	*	0 to 350	*	•

Intermediate ranges available

PERFORMANCE SPECIFICATIONS (AMPLIFIED OUTPUT)

PARAMETERS	MIN	ТҮР	MAX	UNITS	NOTES
Accuracy (combined non linearity, hysteresis, and	-0.15	±0.1	0.15	%Span	FS<1kpsi @25°C
repeatability)	-0.25	±0.2	0.25	%Span	FS≥1kpsi @25°C
Span Tolerance	-1.0	±0.5	1.0	%Span	@25°C
Zero Offset	-1.0	±0.5	1.0	%Span	@25°C
Temperature Error – Span	-1.5	±0.75	1.5	%Span	
Temperature Error – Offset	-1.5	±0.75	1.5	%Span	
Thermal Hysteresis – Span		±0.05		%Span	
Thermal Hysteresis – Offset		±0.05		%Span	
Long Term Stability – Span		±0.10		%Span/year	
Long Term Stability – Offset		±0.10		%Span/year	
Insulation Resistance (50Vdc)	50			MΩ	
Response Time	1		1	ms	
Proof Pressure			3X	Rated	
Burst Pressure			4X	Rated	
Compensated Temperature	-20		+85	°C	Except cable -20~80°C
Operating Temperature	-40		+105	°C	Except cable -20~80°C
Storage Temperature	-40		+125	°C	Except cable -20~80°C
Media Compatibility	Liquids and g	ases compatibl	e with 316/316	L Stainless Steel	
Vibration	±20g MIL-ST	D-810C, Proced	dure 514.2, Fig	ure 514-2, Curve	L
Shock (11ms)	100g 11mS				
Pressure Cycles (Zero to Full Scale)	1 million cycl	es 0 to full scale	9		
Environmental Protection	IP67 (Cable)	Version); IP65 (Packard Varsic	(n)	

For custom configurations, consult factory.

PERFORMANCE SPECIFICATIONS (mV OUTPUT)

PARAMETERS	MIN	TYP	MAX	UNITS	NOTES
Span	99	100	101	mV	FS≥15psi
Span	98	100	102	mV	FS≥1kpsi
Zero Pressure Output	-1.0		1.0	mV	
Pressure Non Linearity	-0.10		0.10	%Span	FS≥15psi
· · · · · · · · · · · · · · · · · · ·	-0.25		0.25	%Span	FS≥1kpsi
Pressure Hysteresis	-0.05	±0.02	0.05	%Span	FS≥15psi
	-0.1		0.1	%Span	FS≥1kpsi
Repeatability		±0.02		%Span	
nput Resistance	6.0	10.0	19.0	kΩ	
Dutput Resistance	4.0		6.0	kΩ	
Гетреrature Error – Span	-1.0		1.0	%Span	
Femperature Error – Offset	-1.0		1.0	%Span	
Thermal Hysteresis – Span	-0.25		0.25	%Span	Over -20°~85°C
Thermal Hysteresis – Offset	-0.25		0.25	%Span	FS≤15psi over -20°~85
₋ong Term Stability – Span		±0.10		%Span/year	
₋ong Term Stability – Offset		±0.10		%Span/year	
Dutput Load Resistance	5			MΩ	
nsulation Resistance (50VDC)	50			MΩ	At 50 V _{DC}
Dutput Noise (10Hz to 1kHz		1.0		μV p-p	
Response Time (10% to 90%)			0.1	ms	
Proof Pressure			ЗX	Rated	
Burst Pressure			4X	Rated	
Compensated Temperature	-20		+85	°C	Except cable -20~80°
Operating Temperature	-40		+125	°C	Except cable -20~80°0
Storage Temperature	-40		+125	°C	Except cable -20~80°
Netted Material	316/316L Stain	less steel			
/ibration	±20g MIL-STD-	810C, Procedure	514.2, Figure 5	14-2, Curve L	
Shock	-		_	Method 213B, Conc	lition A
Pressure Cycles	1 million cycles	•	3,		
Environmental Protection		nnected with mV			

For custom configurations, consult factory.

DIMENSIONS

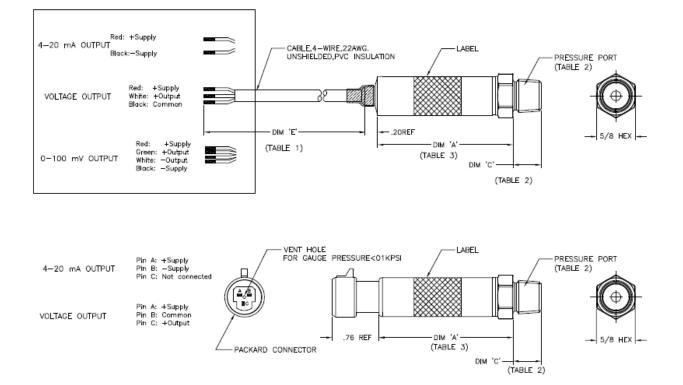


TABLE 1 : CONNECTION

CODE	CONNECTION	DIM 'E'
1	CABLE, BELDEN #8444 2 FEET	24"±1"
2	CABLE, BELDEN #8444 4 FEET	48"±2"
3	CABLE, BELDEN #8444 10 FEET	120"±4"
4	PACKARD CONNECTOR	-

	TABLE 3
CONNECTION	V/mA OUTPUT

≥1000 PSIG/A

2.24" MAX

2.19 MAX

<1000 PSIG/A

2.18" MAX

2.14" MAX

TABLE 2: PRESSURE PORT

CODE	PRESSURE PORT	DIM 'C'
2	1/4-19 BSPP	0.45[11.43]
4	7/16-20 UNF Male SAE J514 Straight Thread Boss O-Ring Buna-N 70SH -904, ID8.92mm X W1.83mm	0.33 [8.38]
5	1/4-18 NPT	0.45[11.43]
6	1/8-27 NPT	0.32[8.13]

OUTPUT	OPTIONS	

PACKARD

CABLE

DIM 'A'

			Supply (V)	
Code	Output	MIN	ТҮР	MAX
2	0 – 100mV (Constant Voltage 10mV/V Output)	2.5	10	14
3	0.5 – 4.5 V (Ratiometric @ 5V)	4.75	5	5.25
4	1 – 5 V	8		30
8	4 – 20 mA	9		30

mV OUTPUT

1.21"

-

Packard connector not available with mV output

de Type Supply Voltage 2 0 - 100mV 2.5 - 14V Ratiometric (typ. 10V) 3 0.5 - 4.5V 4.75 - 5.25V Ratiometric (Typ. 5V) 4 1 - 5V 8 - 30V 3 4 - 20mA 10 - 30V Pressure Ref G Gauge A Absolu Nmection whether and the second of t		ORDER I	NFO	RMATIC	NC								
de Type Supply Voltage 0 0.100mV 2.5 - 14V Ratiometric (typ. 10V) 3 0.5 - 4.5V 4.75 - 5.25V Ratiometric (Typ. 5V) 1 1 - 5V 8 - 30V 3 4 - 20mA 10 - 30V Pressure Ref G Gauge A Absolu Immediation Type Dim 'E' 1 Cable, 2 feet 24"±1" 2 Cable, 10 feet 120"±4" 4 Packard Connector - essure Port 0.45[11.43] 0 0.33[8.38] 8 1/4-19 BSPP 0.45[11.43] 0.33[8.38] 9 5/1/4-18 NPT 0.45[11.43] 0.32[8.13]					ι	JS3 <u>3</u>	<u>3 3</u> - 000)00 <u>2</u>	- <u>100</u>	<u>)P A</u>			
de Type Supply Voltage 0 0.100mV 2.5 - 14V Ratiometric (typ. 10V) 3 0.5 - 4.5V 4.75 - 5.25V Ratiometric (Typ. 5V) 1 1 - 5V 8 - 30V 3 4 - 20mA 10 - 30V Pressure Ref G Gauge A Absolu Immediation Type Dim 'E' 1 Cable, 2 feet 24"±1" 2 Cable, 10 feet 120"±4" 4 Packard Connector - essure Port 0.45[11.43] 0 0.33[8.38] 8 1/4-19 BSPP 0.45[11.43] 0.33[8.38] 9 5/1/4-18 NPT 0.45[11.43] 0.32[8.13]						Ī		Ē					
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B 4 - 20mA 10 - 30V Cable, 2 feet 0 Cable, 2 feet 24"±1" Cable, 4 feet 48"±2" Cable, 10 feet 120"±4" A Packard Connector cable, 10 feet 120"±4" A Packard Connector cable, 10 feet 120"±4" A Packard Connector cable, 10 feet 0.45[11.43] 0.33[8.38] 0.33[8.38] 7/16"-20UNF Male SAE J514 0.33[8.38] Straight Thread Boss O-Ring 0.45[11.43] BUNA-N 70SH-904 0.45[11.43] 108.92mmxW1.83mm 0.45[11.43] 5 1/4-18 NPT 0.45[11.43] 5 1/8-27 NPT 0.32[8.13]													
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Dim C' Version 2 1/4-19 BSPP 0.45[11.43] psi 3 7/16"-20UNF Male SAE J514 0.33[8.38] 015P 4 Straight Thread Boss O-Ring BUNA-N 70SH-904 0.33[8.38] 030P 5 1/4-18 NPT 0.45[11.43] 0.32[8.13] 050P 5 1/8-27 NPT 0.32[8.13] 300P 300P	2 3	Cable, 4 feet Cable, 10 feet		48"±2"									
de Port Type Dim 'C' 2 1/4-19 BSPP 0.45[11.43] psi Std. 4 7/16"-20UNF Male SAE J514 Straight Thread Boss O-Ring BUNA-N 70SH-904 ID8.92mmxW1.83mm 0.33[8.38] 015P 5 1/4-18 NPT 0.45[11.43] 050P 5 1/8-27 NPT 0.32[8.13] 300P 5 1/8-27 NPT 0.32[8.13] 100P	2 3 4	Cable, 4 feet Cable, 10 feet		48"±2"								Pressure Ra	
2 1/4-19 BSPP 0.45[11.43] 5 7/16"-20UNF Male SAE J514 0.33[8.38] 0.33[8.38] Straight Thread Boss O-Ring 0.33[8.38] 0.30P BUNA-N 70SH-904 0.45[11.43] 0.30P 1D8.92mmxW1.83mm 0.45[11.43] 0.50P 5 1/4-18 NPT 0.45[11.43] 6 1/8-27 NPT 0.32[8.13] 300P 500P 01KP	2 3 4	Cable, 4 feet Cable, 10 feet Packard Conne		48"±2"								mV Output	A
7/16"-20UNF Male SAE J514 Straight Thread Boss O-Ring BUNA-N 70SH-904 ID8.92mmxW1.83mm 0.33[8.38] 015P 5 1/4-18 NPT 0.45[11.43] 050P 5 1/8-27 NPT 0.32[8.13] 300P 5 1/8-27 NPT 0.32[8.13] 500P	2 3 4 ⁷ essu	Cable, 4 feet Cable, 10 feet Packard Conne	ector	48"±2"	Dim 'C'						 	mV Output Version	Ai Outp
Straight Thread Boss O-Ring BUNA-N 70SH-904 ID8.92mmxW1.83mm 013P 5 1/4-18 NPT 0.45[11.43] 6 1/8-27 NPT 0.32[8.13] 300P 500P 500P 01KP	2 3 4 ressu	Cable, 4 feet Cable, 10 feet Packard Conne ure Port Port	ector	48"±2"							 	mV Output Version psi	Au Outp psi
BUNA-N 70SH-904 0030P ID8.92mmxW1.83mm 0.45[11.43] 1/4-18 NPT 0.45[11.43] 1/8-27 NPT 0.32[8.13] 300P 500P 01KP	2 3 4 <mark>essu</mark> ode	Cable, 4 feet Cable, 10 feet Packard Conne are Port Port 1/4-19 BSPP	ector t Type	48"±2" 120"±4" -	0.45[11.43]						 	mV Output Version psi Std.	Au Outp psi Std
5 1/4-18 NPT 0.45[11.43] 000P 6 1/8-27 NPT 0.32[8.13] 100P 300P 500P 01KP	essu de	Cable, 4 feet Cable, 10 feet Packard Conne are Port 1/4-19 BSPP 7/16"-20UNF M Straight Thread	ector t Type //ale SA d Boss (48"±2" 120"±4" - E J514	0.45[11.43]						 	mV Output Version psi Std. 015P	A Outp psi Std 015F
5 1/8-27 NPT 0.32[8.13] 100P 300P 500P 500P 01KP 01KP 01KP	2 3 4 ressu ode 2	Cable, 4 feet Cable, 10 feet Packard Conne are Port 1/4-19 BSPP 7/16"-20UNF M Straight Threac BUNA-N 70SH	ector t Type /ale SA d Boss (l-904	48"±2" 120"±4" - E J514 O-Ring	0.45[11.43]						 	mV Output Version psi Std. 015P	A Outp psi Std 015F
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05KP	2 3 4 essu ode 2 1	Cable, 4 feet Cable, 10 feet Packard Conne Port 1/4-19 BSPP 7/16"-20UNF M Straight Threac BUNA-N 70SH ID8.92mmxW1 1/4-18 NPT	ector t Type /ale SA d Boss (l-904	48"±2" 120"±4" - E J514 O-Ring	0.45[11.43] 0.33[8.38] 0.45[11.43]						 	mV Output Version psi Std. 015P 030P 050P 100P 300P 500P 01KP	Ai Outp psi Std 015P 030P 050P 100P 300P 500P

NORTH AMERICA

Measurement Specialties, Inc., a TE Connectivity Company Phone: 800-522-6752 Email: customercare.frmt@te.com

EUROPE

Measurement Specialties (Europe), Ltd., a TE Connectivity Company Phone: +31-73-624-6999 Email: customercare.lcsb@te.com

ASIA

Measurement Specialties (China), Ltd., a TE Connectivity Company Phone: 0400-820-6015 Email: customercare.shzn@te.com

TE.com/sensorsolutions

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