MICRO CONTROL SYSTEMS

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The TI-500-SS Specifications & Description

Physical Characteristics

Pressure Range ..... 0 to 500 psi
Housing ..... Stainless Steel
Operating Temperature ..... -40ºF to +257ºF (-40°C to +125°C)
Proof Pressure ..... 1000 psi
Burst Pressure ..... 1500 psi minimum
Drop (any axis) ..... 1 m
Random Vibration (up to 1Hz) ..... 20g rms
Input Voltage ..... 9 to 32vdc
Output Voltage ..... 1 to 6vdc
Connection ..... 1/8”-27 NPT-2A male
Seal Material ..... Neoprene
Cable Connector ..... Packard
- Length ..... 20’, 40’ or 60’
- Wire ..... Three-conductor 20 awg stranded
- Shield ..... Foil shield with 25% overlap
- Drain ..... Stranded tinned copper drain

Part number description when ordering (TI-500-SS-xx)
- xx ..... 20’, 40’ or 60’ wire length

Part # **TI-500-SS**

Product Description

The TI-500-SS pressure transducer is a proven performer at a low cost. Its design is ideal for demanding HVAC and refrigeration applications where long-term reliability is a requirement. Internal components are packaged in a stainless steel housing with a 1/8”-27 NPT-2A male fitting.

The cable is available in either 20’, 40’ or 60’ lengths with a removable Packard connector to provide easy serviceability. The wire is sealed and crimped to the Packard connector providing a liquid tight environment and strain relief. Media compatibility: Refrigerants (freons)

The table below provides a cross reference between psi and vdc at a sensor input pin of a NC25 micro controller.

Product Specifications

PSI	S1 (vdc)
0	1.00
10	1.10
20	1.20
30	1.30
40	1.40
50	1.50
60	1.60
70	1.70
80	1.80
90	1.90

PSI	S1 (vdc)
100	2.00
110	2.10
120	2.20
130	2.30
140	2.40
150	2.50
160	2.60
170	2.70
180	2.80
190	2.90

PSI	S1 (vdc)
200	3.00
210	3.10
220	3.20
230	3.30
240	3.40
250	3.50
260	3.60
270	3.70
280	3.80
290	3.90

PSI	S1 (vdc)
300	4.00
310	4.10
320	4.20
330	4.30
340	4.40
350	4.50
360	4.60
370	4.70
380	4.80
390	4.90

PSI	S1 (vdc)
400	5.00
410	5.10
420	5.20
430	5.30
440	5.40
450	5.50
460	5.60
470	5.70
480	5.80
490	5.90