

## The TI-500F Specifications & Description

### Physical Characteristics

Pressure Range .....	0 to 500 psi (Gage)
Housing .....	Brass
Operating Temperature .....	-40°F to +248°F (-40°C to +120°C)
Proof Pressure .....	1000 psi
Burst Pressure .....	1500 psi
Drop (any axis).....	1.5 m
Random Vibration (50-2000 Hz)...	11g
Input Voltage .....	5vdc
Output Voltage .....	0.5 to 4.5vdc
Connection.....	1/4" SAE female flare
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-500F-xx)	
xx.....	20', 40' or 60' wire length



Part # TI-500F

### Product Description

The TI-500F 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 brass housing with a 1/4" SAE female 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 (S1) of a MCS micro controller.

### Product Specifications

PSI	S1 (vdc)
0	0.50
10	0.58
20	0.66
30	0.74
40	0.82
50	0.90
60	0.98
70	1.06
80	1.14
90	1.22

PSI	S1 (vdc)
100	1.30
110	1.38
120	1.46
130	1.54
140	1.62
150	1.70
160	1.78
170	1.86
180	1.94
190	2.02

PSI	S1 (vdc)
200	2.10
210	2.18
220	2.26
230	2.34
240	2.42
250	2.50
260	2.58
270	2.66
280	2.74
290	2.82

PSI	S1 (vdc)
300	2.90
310	2.98
320	3.06
330	3.14
340	3.22
350	3.30
360	3.38
370	3.46
380	3.54
390	3.62

PSI	S1 (vdc)
400	3.70
410	3.78
420	3.86
430	3.94
440	4.02
450	4.10
460	4.18
470	4.26
480	4.34
490	4.42