



## The TI-500F-xx-MIL 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..... Hellically applied, laminated  
 aluminum/polyester tape  
 Drain ..... Stranded tinned copper drain  
 Jacket ..... CSPE  
 Insulation ..... XLPE  
 Part number description when ordering (TI-500F-xx)  
 xx..... 20', 40' or 60' wire length



Part # **TI-500F-xx-MIL**

### 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 flare 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 con-

### Product Specifications

PSI	S1
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
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
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
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
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