

# DEFENSE

PRESSURE TRANSDUCERS, TRANSMITTERS & TACHOMETERS



 SucoESI  
North America

561.989.8540 | [sucoesi.com](http://sucoesi.com) | CAGE Code: 0TSK1

# Pressure Transducers, Transmitters and Tachometers for Military & Defense



- SUCO ESI North America is a leading pressure transmitter manufacturer for defense contractors, Army, Navy, Air Force, and the U.S. military.
- Our products are ensured to fit for purpose by employing 100% final inspection testing protocol, and by adhering to workmanship according to the relevant MIL standards. Products are checked for conformity and supplied with relevant certification as standard.
- Our quality management system is certified to ISO 9001: 2015.
- ESI, Inc is registered under Cage Code 0TSK1.

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# Pressure Transmitter DF6101



## Pressure Transmitter to DWG 12259832:

- Compact design suitable for use in vehicles
- Sealed for ingress protection in harsh environments
- Stainless steel housing and sensor
- 1/4" NPT male process connection
- High level millivolt output signal
- Available in several pressure ranges
- All manufacturing in accordance with ISO 9001:2015
- Cage Code 0TSK1

ESI Part Number	Part Number	NSN	Range
DF6101-4	12258932-4	6685-01-170-9956	0-25 psig
DF6101-6	12258932-6	6685-01-167-4298	0-100 psis
DF6101-9	12258932-9	6620-01-501-8648	0-30 psig
DF6101-10	12258932-10	6620-01-501-8649	0-100 psis

### Advantages:

The rugged DF6101 series of Pressure Transducers have been designed and manufactured to meet the exacting needs of military standards and provide outstanding reliability and service in the field. ESI has a proven track record for quality and workmanship and a long history of supply to demanding defense applications.

Having a low signal mV output the transducers are constructed using materials which strictly conform to the requirements outlined in MIL drawings and specifications offering outstanding environmental protection when exposed to harsh physical conditions, even when exposed to contact with fuel, engine lubricants, and hydraulic liquid.

The latest sensing technology combined with robust design ensures stability and high performance, even in the most difficult conditions and ensure a long service life in the field.

All units meet the technical and physical standards outlined in the specification including accuracy, shock, vibration, humidity, immersion, high temperature, endurance, environmental protection, corrosion, and overpressure.

We ensure each unit is fit for purpose by employing 100% final inspection testing protocol and by adhering to workmanship according to the relevant MIL standards. Products are checked for conformity and supplied with relevant certification as standard.

# Pressure Transmitter DF6103



## Pressure Transmitter to Military Standard MIL-T-24742 (SH):

- Lightweight but robust design for harsh environments
- Pressure connection 7/16-20UNF-2B conforming to MS16142
- Fixing bracket for ease of installation
- Output signal 4-20mA 2 wire configuration
- Applications include steam, sea water, flue gas, oxygen, fresh water and ammonia
- 12 standard pressure ranges available others on request
- All manufacturing in accordance with ISO 9001:2015
- Cage Code 0TSK1

ESI Part Number	Part Number	NSN	Range
DF6103-6	M24742-R-F-35D-X-DC-A	6685-01-522-5335	4-20mA
DF6103-7	M24742-R-F-33D-X-DC-A	6685-01-522-4585	4-20mA
DF6103-8	M24742-R-F-37E-X-DC-A	6685-01-420-6115	4-20mA
DF6103-12	M24742-R-H-34D-X-DC-A	6685-01-558-5443	4-20mA
DF6103-13	M24742-R-F-38D-X-DC-A	6685-01-558-5438	4-20mA

### Advantages:

The DF6103 series of Pressure Transmitters and Transducers are manufactured to meet the requirements of military standard MIL-T-24742 (SH) for naval shipboard and/or military use and provide outstanding reliability and service in the field. ESI has a proven track record for quality and workmanship and long history of supply to demanding defense applications.

With a 4-20mA current or optional 0-5Vdc voltage output signal, and field-adjustable zero and span adjustment, the transducers are constructed using materials which strictly conform to the requirements outlined in the MIL standard. The latest sensing technology combined with a lightweight robust design ensures stability and high performance even in the most difficult conditions. The DF6103 series offers a direct replacement for older MIL-P-24212C (SH) transmitters in service.

Applications for this transmitter are varied and several options are available for use with steam, sea water, oxygen, fresh water, ammonia, condensate, nitrogen, liquid hydrocarbons, and inert gases among others.

Our strict final inspection procedure ensures each unit meets the technical and physical standards outlined in the specification including accuracy, shock, vibration, humidity, EMC protection, environmental protection, corrosion, and overpressure.

# Pressure Transmitter DF6104



## Pressure Transmitter to DWG 5429512:

- High performance pressure transmitter
- Rugged all stainless steel construction and sensing element
- Output signal 4-20mA 2 wire configuration
- Available in vacuum pressure range 0-40" H<sub>2</sub>O
- Designed for vehicles operating in extremely harsh environments
- Meets the rigorous testing standards outlined in the MIL specification
- 1/4" NPT male process connection
- All manufacturing in accordance with ISO 9001:2015
- Cage Code 0TSK1

ESI Part Number	Part Number	NSN	Range
DF6104-1	5429512-1	6620-01-323-0663	0-100 psig
DF6104-2	5429512-2	6620-01-323-0664	0-250 psig
DF6104-3	5429512-3	6620-01-321-5514	0-40" H <sub>2</sub> O

### Advantages:

The robust DF6104 series of Pressure Transmitters have been designed and manufactured to meet the exacting needs of military standards and to provide outstanding reliability and service in the field. With a 4-20mA current output signal, the transmitters are constructed using materials which strictly conform to the requirements outlined in MIL drawings and specifications. The latest sensing technology combined with robust design ensures stability and high performance, even in the most difficult conditions.

All units meet the technical and physical standards outlined in the specification including accuracy, shock, vibration, humidity, EMC protection, environmental protection, corrosion and overpressure, ensuring long service life in the field.

ESI ensures each unit is fit for purpose by employing 100% final inspection testing protocol, and by adhering to workmanship according to the relevant MIL standards. Products are checked for conformity and supplied with relevant certification as standard.

# Pressure Transmitter DF6137



## Pressure Transmitter to DWG 12258877

- Robust high performance pressure transducer
- Compound pressure range for vacuum measurement to +25 psig
- High level millivolt signal output
- Vehicle diagnostics and test applications
- Sealed for ingress protection and suitable for harsh environments
- Stainless steel housing with hermetically sealed MIL connector
- 1/4" NPT male process connection
- All manufacturing in accordance with ISO 9001:2015
- Cage Code 0TSK1

ESI Part Number	Part Number	NSN	Range
DF6137	12258877	6620-01-067-8952	-30" Hg to +25 psig

### Advantages:

DF6137 Pressure Transducers offer outstanding environmental protection when exposed to harsh physical conditions, even when in contact with glycol, diesel fuel, gasoline, oil, and non-corrosive gases. With low-level mV output, the DF6137 is constructed using materials which strictly conform to the requirements outlined in MIL drawings and specifications.

The latest sensing technology combined with robust design ensures stability and high performance even in the most difficult conditions, ensuring long service life in the field.

All units conform to the technical and physical standards outlined in the specification, including accuracy, shock, vibration, humidity, high temperature, endurance, environmental protection, corrosion and overpressure, and we ensure each unit is fit for purpose with 100% final inspection testing protocol, and by adhering to workmanship according to the relevant MIL standards. Products are checked for conformity and supplied with relevant certification as standard.

# Pressure Transmitter DF6139



## Pressure Transducer, LOAD CELL, FORCE WEI to DWG 12258876

- Robust high performance pressure transducer
- Pressure range 0-1000 psig
- High level millivolt signal output
- Vehicle diagnostics and test applications
- Sealed for ingress protection and suitable for harsh environments
- Stainless steel housing with hermetically sealed MIL connector
- 1/4" NPT male process connection
- All manufacturing in accordance with ISO 9001:2015
- Cage Code 0TSK1

ESI Part Number	Part Number	NSN	Range
DF6139	12258876	6670-01-067-8954	0-1000 psig

### Advantages:

The DF6139 Pressure Transducer has been designed and manufactured to strictly conform to the requirements outlined in MIL drawings and specifications. The pressure transducers have low-level mV output and are constructed using materials which offer outstanding environmental protection when exposed to harsh physical conditions- even when in contact with glycol, diesel fuel, gasoline, oil, and non- corrosive gases.

ESI have many years experience of supplying to demanding defense applications and have a proven track record for the high quality workmanship that is essential for meeting the exacting needs of military standards and providing outstanding reliability and service in the field.

The latest sensing technology combined with robust design ensures stability and high performance even in the most difficult conditions. Each unit conforms to the technical and physical standards outlined in the specification, including accuracy, shock, vibration, humidity, high temperature, endurance, environmental protection, corrosion and overpressure, and are marked with special color-coded identification plates.

Each unit is thoroughly inspected, checked for conformity and supplied with relevant certification as standard.

# Transducer, Motional Pickup DF6140



## Temperature Transducer/Transmitter to DWG 12258933:

- High performance temperature transducer with mV output signal
- Vehicle diagnostics and test applications
- Robust design for operation on vehicles in harsh conditions
- Environmentally sealed cable and Sure-Seal connector
- Temperature measurement range 0-300°F
- 1/4" NPT male process connection
- All manufacturing in accordance with ISO 9001:2015
- Cage Code 0TSK1

ESI Part Number	Part Number	NSN	Range
DF6140	12258933	6685-01-352-6569	0-300° F

### Advantages:

The rugged DF6140 Motional Pickup Transducer has a compact design, incorporating a high specification temperature sensor with a low-level mV signal output proportionate to temperature. The units are designed to work on vehicles in challenging environments where constant exposure to oils, fuels and coolants normally found in an engine environment. Therefore, they are constructed using only materials that conform to strict MIL specification, offering outstanding environmental protection when exposed to harsh physical conditions, ensuring long service life in the field.

All units are tested to the technical and physical standards outlined in the specification, including accuracy, shock, vibration, humidity, high temperature, endurance, environmental protection, corrosion and overpressure. The final inspection protocol confirms each unit is fit for purpose and adheres to the relevant MIL standards. Relevant certification is supplied.



# Dial Indicating Pressure Gage, DF6143



## Pressure Gage to AN6026-1B and MIL-DTL-6019E

- Pressure gage suitable for critical use
- Measurement range 0-500 psig
- 1-1/2" diameter dial with 180° scale (sweep)
- Manufactured in accordance with AN6026-1B and MIL-DTL-6019E
- Packaged according to relevant MIL preservation methods
- LOX cleaned for oxygen use
- 1/8" NPT male process connection IAW MIL-P-7105
- All manufacturing in accordance with ISO 9001:2015
- Cage Code 0TSK1

ESI Part Number	Part Number	NSN	Range
DF6143	AN6026-1B	6685-00-527-6156	0-500 psig

### Advantages:

The DF6143 Low Pressure Oxygen Gage features a bourdon tube element, over the scale 0-500 psi, to provide reliable readings of critical oxygen contents. The special dial markings and materials are in accordance with AN6026-1B and MIL-DTL-6019E.

It has been developed to meet the exacting needs of military standards and conform to the technical and physical standards outlined in the specification, including accuracy, shock, vibration, humidity, endurance, environmental protection, corrosion, and overpressure.

High quality workmanship in accordance with MIL standards, and ESI's testing and inspection procedures ensure that each unit is fit for purpose and has a long service life in the field. Products are checked for conformity and supplied with relevant certification as standard.

# Electrical Resistance Temperature Transmitter DF6156



## Transmitter, Temperature, Electric DF6156

- Temperature transducer with resistive output signal
- Features a Resistive Temperature Device (RTD)
- Robust design for operation in challenging engine applications
- Environmentally sealed housing and hermetic MIL connector
- Suitable for insitu steam and water jet cleaning
- 1/4" NPT male process connection
- All manufacturing in accordance with ISO 9001:2015
- Cage Code 0TSK1

ESI Part Number	Part Number	NSN	Range
DF6156	12300128	6685-01-112-2334	0-300° F

### Advantages:

The compact DF6156 Temperature Transmitter has been designed and manufactured to meet the exacting needs of military standards and provide outstanding reliability and service in the field. ESI has a proven track record for quality and workmanship, and a long history of supply to demanding defense applications.

The transducers incorporate a Resistive Temperature Device (RTD) giving a resistive output proportionate to temperature, and are constructed using materials which strictly conform to the requirements outlined in MIL drawings and specifications offering outstanding environmental protection when exposed to harsh physical conditions. The units are designed to withstand steam and water jet spraying for in position cleaning, and features a hermetically sealed electrical connector.

All units conform to the technical and physical standards outlined in the specification including accuracy, shock, vibration, humidity, high temperature, endurance, environmental protection, corrosion, and overpressure ensuring long service life in the field.

ESI ensures product is fit for purpose by employing 100% final inspection testing protocol and by adhering to workmanship according to the relevant MIL standards. Products are checked for conformity and supplied with relevant certification as standard.

# Temperature Transducer DF6156-SS



## Resistive Temperature Transducer to DWG 12596270

- Temperature transducer with resistive output signal
- Resistive Temperature Device (RTD) sensor
- Robust design for operation in challenging engine applications
- All welded stainless steel housing
- Hermetic MIL connector with stainless steel shell
- Process connection 1/4" NPT male
- Resistant to high shock and vibration and harsh conditions
- All manufacturing in accordance with ISO 9001:2015
- Cage Code 0TSK1

ESI Part Number	Part Number	NSN	Range
DF6156-SS	12596270	N/A	0 - 300° F (0 - 148° C)

### Advantages:

The DF6156-SS is an all-stainless steel temperature transducer that has been developed in accordance with strict military standards. The product is designed to withstand steam and water jet spray for in-position cleaning and features a welded hermetically sealed electrical connector and Resistive Temperature Device (RTD) with a resistive output proportionate to temperature.

All units are rigorously tested and inspected to the technical and physical standards outlined in the specification including accuracy, shock, vibration, humidity, high temperature, endurance, environmental protection, corrosion, and overpressure, ensuring long service life in the field. Each unit is checked for conformity to the relevant MIL standards and issued with certification.

# Temperature Transducer DF6158



## Resistive Temperature Transducer to DWG 2600223

- Temperature transducer with resistive output signal
- Robust design for operation in challenging engine environments
- Brass housing with integral cable and connector
- Connector seals against water, fuel, lubricants and road salt ingress
- Protection class IP67
- Process connection 1/2" NPT male
- All manufacturing in accordance with ISO 9001:2015
- Cage Code 0TSK1

ESI Part Number	Part Number	NSN	Range
DF6158	2600223	2815-01-466-8905	-58° to +311° F (-50° to +155° C)

### Advantages:

The rugged, yet compact construction of the DF6158 Motional Pickup Transducer incorporates a high specification temperature sensor and gives a low-level mV signal output proportionate to temperature. Constructed with materials strictly conforming to the requirements outlined in MIL drawings and specifications, the DF6158 is designed to work on vehicles in challenging environments, with constant exposure to oils, fuels and coolants normally found in an engine environment.

ESI's proven track record of high quality workmanship and a long history of supply to demanding defense applications ensures that all units conform to the technical and physical standards outlined in the specification, including accuracy, shock, vibration, humidity, high temperature, endurance, environmental protection, corrosion and overpressure.

Our rigorous final inspection procedure is carried out on each individual unit, confirming that they have been manufactured to meet the exacting demands of military standards and are fit for purpose, ensuring long service life in the field. Relevant certification is supplied as standard.

# Tachometer, Vibrating Reed, DF6169



## Pulse Tachometer to DWG 12258875

- Pulse tachometer produces a signal proportionate to rotational speed
- Vehicle diagnostics and test applications
- Suitable for exposure to oils, fuels and coolants
- DF6169 features a single female take-off connection
- Self-lubricating for long service life
- Fitted with MIL connector for ease of use
- Removable drive tip
- All manufacturing in accordance with ISO 9001:2015
- Cage Code 0TSK1

ESI Part Number	Part Number	NSN	Range
DF6169	12258875	6680-01-060-7175	N/A

### Advantages:

The DF6169 Pulse Tachometer has been designed and manufactured to meet the exacting needs of military standards. The tachometer generates pulses via a reed switch, and interfaces with a tachometer drive take-off (or adapter) on a variety of engines and features an oil-impregnated bearing per MIL-B-5687C. The DF6169 is constructed using materials which offer outstanding protection to the harsh environments found when working on vehicles, where there is exposure to oils, fuels and coolants.

All units conform to the technical and physical standards outlined in the specification including accuracy, shock, vibration, humidity, high temperature, endurance, corrosion, and immersion ensuring long service life in the field.

Testing and inspection is carried out in accordance with the relevant MIL standards and certification is supplied with each unit.

# Mechanical Tachometer DF6186



## Fixed Mounting Pulse Tachometer to DWG 12258931-1

- Pulse tachometer produces a signal proportionate to rotational speed
- Robust design for operation on vehicles in challenging environments
- Suitable for exposure to oils, fuels and coolants
- Self-lubricating for long service life
- DF6169 features a single female take-off connection
- DF6186 features male and female take-off connections
- Environmentally 90° sealed cable and Sure-Seal connector
- Removable drive tip
- All manufacturing in accordance with ISO 9001:2015
- Cage Code 0TSK1

ESI Part Number	Part Number	NSN	Range
DF6186	12258932-1	6680-01-114-7653	N/A

### Advantages:

The DF6186 Mechanical Tachometer has been designed for permanent installation on a vehicle with male and female take-off connections and is manufactured using materials and procedures outlined in MIL drawings and specifications.

Each unit is tested in environments that have been created to mimic the harsh physical conditions in the field and must pass the thorough final inspection procedures in order to ensure conformance to the relevant MIL standards.

ESI has a proven track record for quality and workmanship, and a long history of supply to demanding defense applications.

# Pulse Tachometer DF6187



## Fixed Mounting Pulse Tachometer to DWG 12258931-2

- Pulse tachometer produces a signal proportionate to rotational speed
- Robust design for operation on vehicles in challenging environments
- Suitable for exposure to oils, fuels and coolants
- Self-lubricating for long service life
- DF6187 features a single female take-off connection
- Environmentally 90° sealed cable and Sure-Seal connector
- Removable drive tip
- All manufacturing in accordance with ISO 9001:2015
- Cage Code 0TSK1

ESI Part Number	Part Number	NSN	Range
DF6187	12258931-2	6680-01-148-8875	N/A

### Advantages:

The DF6187 Mechanical Tachometer has been designed to be permanently installed and is manufactured to meet the exacting needs of military standards and provide outstanding reliability and service in the field.

The tachometer, also known as a speed transmitter, is constructed using materials which conform to the requirements outlined in MIL drawings and specifications offering outstanding environmental protection when exposed to harsh physical conditions.

ESI ensures product is fit for purpose by employing 100% final inspection testing protocol and by adhering to workmanship according to the relevant MIL standards. Products are checked for conformity and supplied with relevant certification as standard.

Our products are ensured to be fit for purpose by employing 100% final inspection testing protocol and by adhering to workmanship according to the relevant MIL standards. Products are checked for conformity and supplied with relevant certification as standard.

# HI2000 High Precision Pressure Transducer



## High Specification Pressure Transducer Performance:

- Silicon-on-sapphire sensor technology
- Pressure ranges 0-500mbar to 0-1,500bar (0-7.5psi to 0-20,000 psi)
- Superb thermal performance
- High operating temperature
- 0-100mV, 0-5Vdc or 0-10Vdc output
- Excellent accuracy
- Outstanding long term stability
- All titanium alloy wetted parts

\*Intrinsically safe option. Flammable gases (zone 0) and dusts (zone 20)

Output	Electrical Connector	Wires	Type	Options	Pressure Range	Process Connection			
10 mV/V	Cable outlet 1m PTFE	4	HI2000						
	MIL-C-26482 6 pin bayonet	4	HI2010						
0-5 V	Cable outlet 1m PTFE	4	HI2001						
		3	HI2004						
	MIL-C-26482 6 pin bayonet	4	HI2011						
		3	HI2014						
0-10 V	Cable outlet 1m PTFE	4	HI2002						
		3	HI2005						
	MIL-C-26482 6 pin bayonet	4	HI2012						
		3	HI2015						
<b>Options</b>									
No special option required							-		
ATEX/ IECEx certified (HI2000 & HI2010 only)							EX		
<b>Pressure Range in bar</b>									
0-1 barVac					V001				
0-1 bar (0-15 psi)					0001				
0-10 bar (0-150 psi)					0010				
0-25 bar (0-300 psi)					0025				
0-100 bar (0-1,500 psi)					0100				
0-250 bar (0-3,000 psi)					0250				
0-400 bar (0-6,000psi)					0400				
0-600 bar (0-8,700 psi)					0600				
0-1,000 bar (0-15,000 psi)					1000				
0-1,500 bar (0-20,000 psi)					1500				
<b>Process Connection</b>									
1/4" BSP male (G1/4)						AB			
1/4" NPT male						AM			
<b>Order Number Example</b>									
						HI2000EX0020AB			

For options not listed please contact the sales team



# HI6000 High Temperature Transducer



## Performance:

- High operating temperature up to 135°C (275°F)
- For limited periods up to 150°C (302°F)
- Titanium wetted parts for excellent chemical compatibility
- Pressure ranges 0-1bar to 0-1,500bar (0-15psi to 0-21,000psi)
- State-of-the-art technology
- Silicon-on-Sapphire sensor technology for outstanding performance
- High thermal stability over wide temperature range
- High accuracy version available

Output	Electrical Connection	Wires	Type	Options	Pressure Range	Process Connection			
0.5-4.5 V ratiometric	Cable outlet 1m screened IP67 protection	4	HI6000						
	D38999 6 pin connector	4	HI6010						
0-5 V	Cable outlet 1m screened IP67 protection	4	HI6001						
	D38999 6 pin connector	4	HI6011						
	Cable outlet 1m screened IP67 protection	3	HI6301						
	D38999 6 pin connector	3	HI6311						
0-10 V	Cable outlet 1m screened IP67 protection	4	HI6002						
	D38999 6 pin connector	4	HI6012						
	Cable outlet 1m screened IP67 protection	3	HI6302						
	D38999 6 pin connector	3	HI6312						
4-20 mA	Cable outlet 1m screened IP67 protection	2	HI6003						
	D38999 6 pin connector	2	HI6013						
<b>Options</b>									
No special options									
<b>Pressure Range in bar</b>									
					0-1 bar Vac	V001			
					0-0.5 bar	00.5			
					0-1 bar	0001			
					0- 2.5 bar	02.5			
					0-6 bar	0006			
					0-10 bar	0010			
					0- 16 bar	0016			
					0-25 bar	0025			
					0-100 bar	0100			
					0-250 bar	0250			
					0-400 bar	0400			
					0-600 bar	0600			
					0-1,000 bar	1000			
					0-1,500 bar	1500			
<b>Process Connection</b>									
AS4395B-E04 (7/16-20 UNJF- 3A)									
						FN			

# SUCO ESI North America

THE WORLDWIDE SPECIALIST FOR CUSTOMIZED PRESSURE TRANSDUCERS & TRANSMITTERS



SUCO ESI North America has become one of the leading suppliers for specialized pressure sensors by offering bespoke solutions for specific applications.

With a dedicated manufacturing and engineering facility in UK, our company serves an extensive range of major industries such as Defense, Aerospace, Marine, Oil and Gas, Test and Calibration.

Being a key supplier to these industries requires high performance, not only in terms of products, but also from design and sourcing through to shipment and customer service.

ESI's Management System is approved to ISO 9001:2015, and ATEX, IECEx and DNV-GL approval is available on a wide range of products.

Throughout the product range, ESI uses a variety of state of the art sensor technologies to make each product a perfect fit to the desired application. The jewel of ESI's sensor technologies is Silicon on Sapphire, which has redefined the performance capability of pressure monitoring products.

With a wide sales network, SUCO ESI North America is able to deliver its special services globally. If you can't find the suitable solution on our catalog, please do not hesitate to contact the sales team.

**We are looking forward to serve you!**

## Contact Us

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