

TAE LCO

*Products for Aerospace
and Military Applications...*



Builds the future!

T A E L C O

Products for Aerospace and Military
Applications

HIGH REL
ENGINEERED

MISSION CRITICAL SOLUTIONS

BUILT TO ENDURE

RTCA DO-160 / MIL-STD-810 / MIL-STD-461 Qualified
Reliability for the Most Demanding Environments

APPLICATION GUIDE

- 1** Environmental Control (ECS)

 - ▶ Pressure Sensors
 - ▶ Temperature Sensors
 - ▶ Diff. Pressure Sensors
- 2** Radar Cooling

 - ▶ Pressure Sensors
 - ▶ Temperature Sensors
- 3** Auxiliary Power Unit (APU)

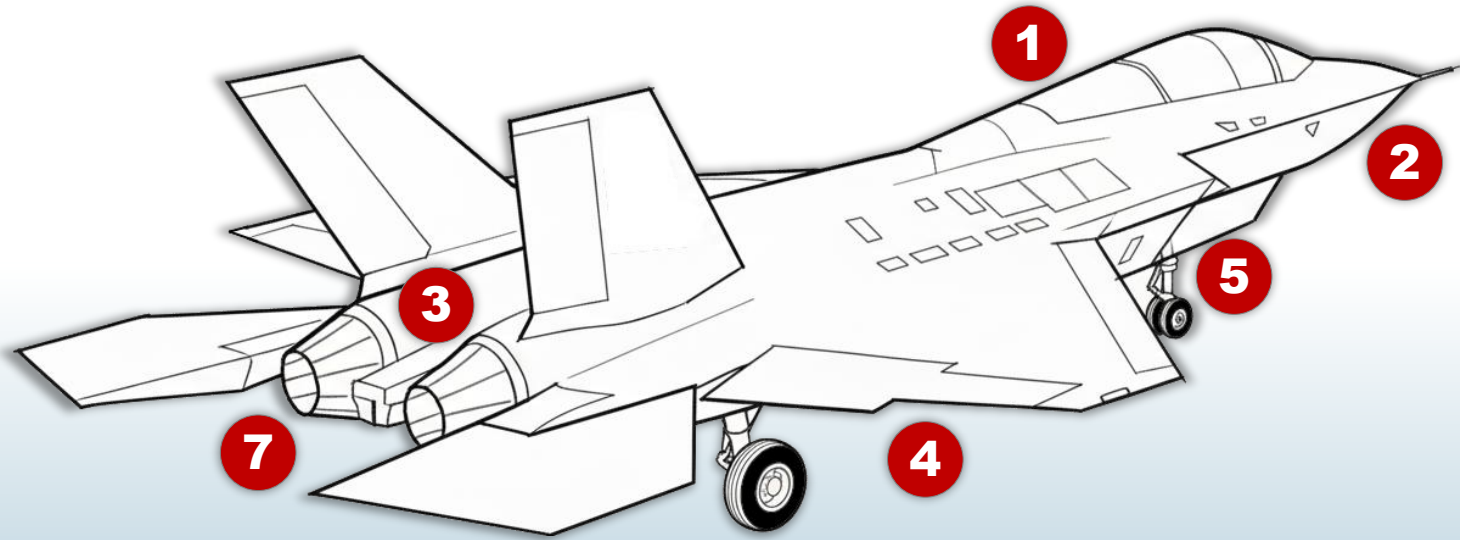
 - ▶ Pressure Sensors
 - ▶ Temperature Sensors
- 4** Fuel Systems

 - ▶ Pressure Sensors
 - ▶ Temperature Sensors
- 5** Hydraulic Systems

 - ▶ Pressure Sensors
- 6** Engines & Transmission

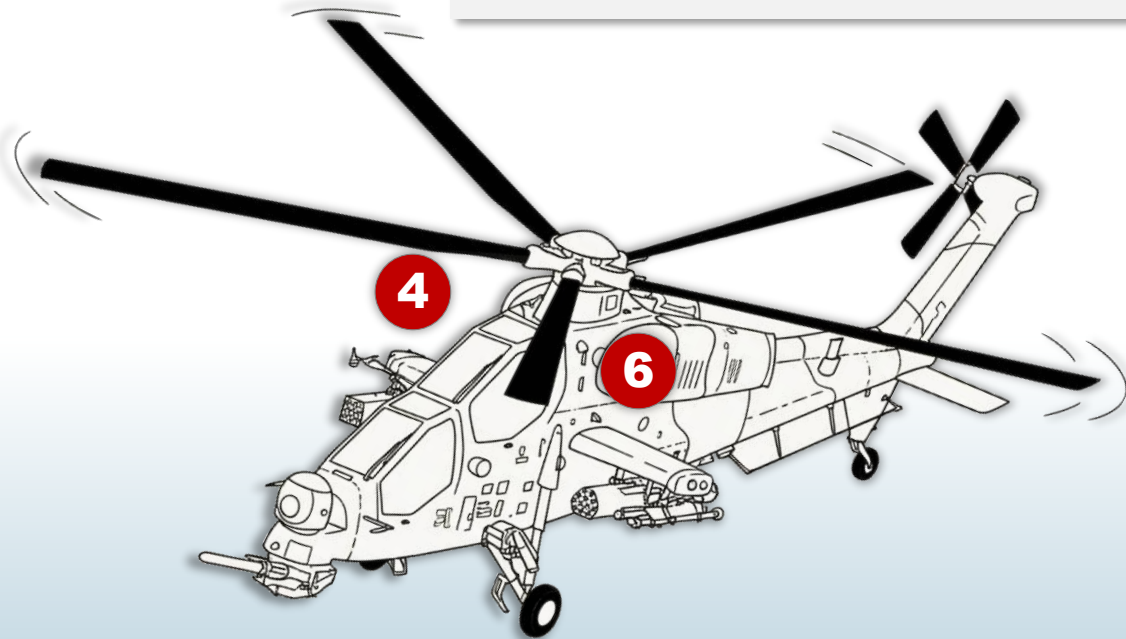
 - ▶ Diff. Pressure Switches
 - ▶ Pressure Sensors
 - ▶ Temperature Sensors
- 7** Propulsion Systems

 - ▶ Pressure & Temperature Sensors



QUALIFICATIONS

- ▶ RTCA DO-160 / MIL-STD-810 qualified
- ▶ MIL-STD-461 qualified
- ▶ Completely Analog : No Software
- ▶ 100,000 hours MTTF (minimum)
- ▶ Up to 1 million life cycle
- ▶ Custom Design
- ▶ ISO9001



PTSC-EM
Combined Pressure
Temperature Sensor



PSC-EM
Pressure Sensor



TSC-EP
Temperature Sensor



TSCL-EP
Temperature Sensor



PTSC-EP
Combined Pressure
Temperature Sensor



PSC-EP
Pressure Sensor



DPS-EP
Differential Pressure
Switch



DPC-EP
Differential Pressure
Sensor

								
MODEL NAME	PTSC-EM	PTSC-EP	PSC-EM	PSC-EP	TSC-EP	TSCL-EP	DPS-EM	DPC-EM
PRODUCT NAME	COMBINED PRESSURE AND TEMPERATURE SENSOR		PRESSURE SENSOR		TEMPERATURE SENSOR		DIFFERENTIAL PRESSURE SWITCH	DIFFERENTIAL PRESSURE SENSOR
MIL-STD-461	■	-	■	-	-	-	■	■
MIL-STD-810 DO-160	■	■	■	■	■	■	■	■
PRESSURE ACCURACY	≤ ±0.5% at RT	≤ ±0.5% at RT	≤ ±0.5% at RT	≤ ±0.5% at RT	-	-	-	≤ ±0.5% at RT
PROOF PRESSURE	2 x FS pressure	2 x FS pressure	2 x FS pressure	2 x FS pressure	-	-	3000kPa	2 x FS pressure
BURST PRESSURE	3 x FS pressure	3 x FS pressure	3 x FS pressure	3 x FS pressure	-	-	-	3 x FS pressure
TEMPERATURE SENSOR	PT100 / PT1000 Class B	PT100 / PT1000 Class B	PT100 / PT1000 Class B	PT100 / PT1000 Class B	PT100 / PT1000 Class B	PT100 / PT1000 Class B	-	-
MATERIAL	Al7075T7651	Al7075T7651	Al7075T7651	Al7075T7651	Al7075T7651	Al7075T7651	AISI 316	AISI 316
MECHANICAL I/F	7/16-20 UNJF-3A	7/16-20 UNJF-3A	7/16-20 UNJF-3A	7/16-20 UNJF-3A	7/16-20 UNJF-3A	7/16-20 UNJF-3A	3/4-16 UNJF-3A	7/16-20 UNJF-3A
ELECTRICAL I/F	D38999/26WA35PN	D38999/26WA35PN	D38999/26WA35PN	D38999/26WA35PN	MS3112-A8-3P	MS3112-A8-3P	D38999/21YB98PN	D38999/26WA35PN
TYPICAL WEIGHT	35g	35g	35g	35g	15g	17g	150g	135g
MOUNTING TORQUE	2.5Nm	2.5Nm	2.5Nm	2.5Nm	2.5Nm	2.5Nm	10.0Nm	5.0Nm
WARRANTY	2 years	2 years	2 years	2 years	2 years	2 years	2 years	2 years

APPLICATION GUIDE

- 1** Environmental Control (ECS)

 - ▶ Pressure Sensors
 - ▶ Temperature Sensors
 - ▶ Diff. Pressure Sensors
- 2** Electronics/Radar Cooling

 - ▶ Pressure Sensors
 - ▶ Temperature Sensors
- 3** Propulsion & Power

 - ▶ Pressure Sensors
 - ▶ Temperature Sensors
- 4** Command, Control

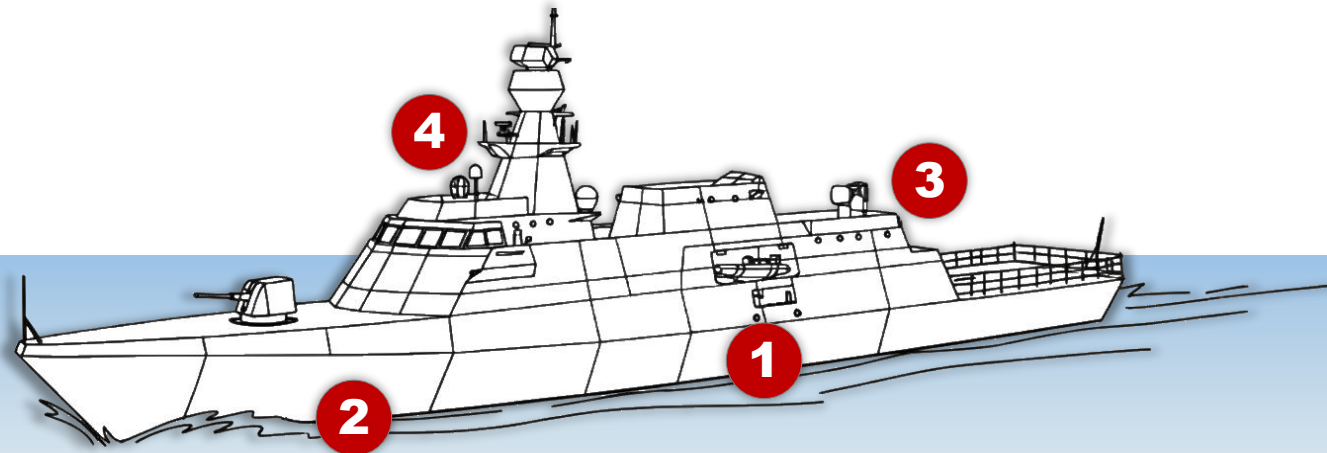
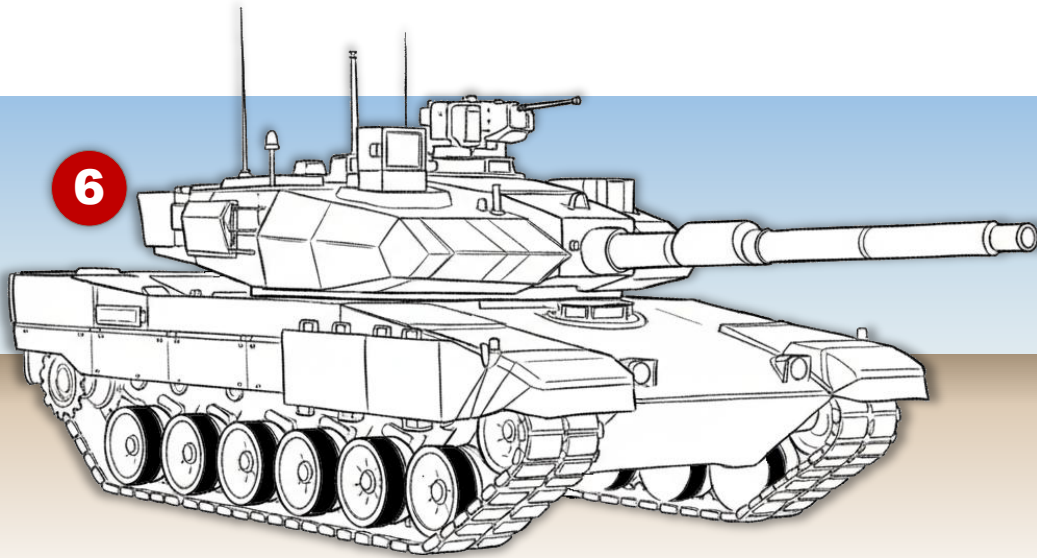
 - ▶ Pressure Sensors
- 5** Weapon Systems

 - ▶ Pressure Switches
- 6** Engines (Powerplant)

 - ▶ Pressure Sensors
 - ▶ Temperature Sensors

QUALIFICATIONS

- ▶ RTCA DO-160 / MIL-STD-810 qualified
- ▶ MIL-STD-461 qualified
- ▶ Completely Analog : No Software
- ▶ 100,000 hours MTTF (minimum)
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- ▶ Custom Design
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PTSW-EP
Combined Pressure
Temperature Sensor



PSW-EP
Pressure Sensor



PTSC-M
Combined Pressure
Temperature Sensor



PSC-M
Pressure Sensor



MPS-EP
Pressure Switch



DPC-EP
Differential Pressure
Sensor



DPS-EP
Differential Pressure
Switch

							
MODEL NAME	PTSW-EP	PTSC-M	PSW-EP	PSC-M	MPS-EP	DPS-EM	DPC-EM
PRODUCT NAME	COMBINED PRESSURE AND TEMPERATURE SENSOR		PRESSURE SENSOR		MINIATURE PRESSURE SWITCH	DIFFERENTIAL PRESSURE SWITCH	DIFFERENTIAL PRESSURE SENSOR
MIL-STD-461	-	-	-	-	-	■	■
MIL-STD-810 DO-160	■	■	■	■	■	■	■
PRESSURE ACCURACY	≤ ±0.5% at RT	≤ ±0.5% at RT	≤ ±0.5% at RT	≤ ±0.5% at RT	≤ ±0.5% at RT	-	≤ ±0.5% at RT
PROOF PRESSURE	2 x FS pressure	2 x FS pressure	2 x FS pressure	2 x FS pressure	2 x FS pressure	3000kPa	2 x FS pressure
BURST PRESSURE	3 x FS pressure	3 x FS pressure	3 x FS pressure	3 x FS pressure	3 x FS pressure	-	3 x FS pressure
TEMPERATURE SENSOR	PT100 / PT1000 Class B	PT100 / PT1000 Class B	PT100 / PT1000 Class B	PT100 / PT1000 Class B	PT100 / PT1000 Class B	-	-
MATERIAL	Al7075T7651	Al7075T7651	Al7075T7651	Al7075T7651	AISI 304	AISI 316	AISI 316
MECHANICAL I/F	M10x1.5	G1/4-19	M10x1.5	G1/4-19	M16x1.5	3/4-16 UNJF-3A	7/16-20 UNJF-3A
ELECTRICAL I/F	M27500G26ML5 spec. cable	PT02A12-8P	M27500G26ML5 spec. cable	PT02A12-8P	2 x lead wire	D38999/21YB98PN	D38999/26WA35PN
TYPICAL WEIGHT	30g	75g	30g	75g	35g	150g	135g
MOUNTING TORQUE	2.5Nm	7.5Nm	2.5Nm	7.5Nm	5.0Nm	10.0Nm	5.0Nm
WARRANTY	2 years	2 years	2 years	2 years	2 years	2 years	2 years