

SSTT Series

Model: SSTT-AX-3X-DXB-00

Subsea Temperature Sensor

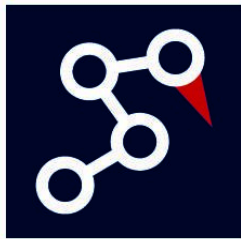


Product Highlights:

- All UNS31803 Duplex Stainless Steel
- Submersible to depths of 2000m
- Custom probe length & connection
- Subsea wet-mateable connector

Applications include, but not limited to:

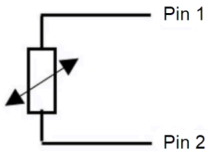
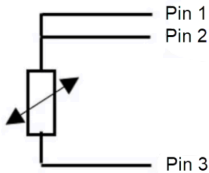
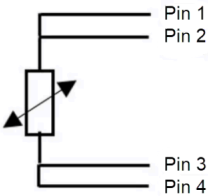
- Subsea Pods & ROV's
- Oil & Gas seal monitoring
- Oil & Gas pipe monitoring
- Custom applications



Specification for SSTT-AX-3X-DXB-00:

SSTT Series - Subsea temperature sensor	
Sensor technology	Resistance Thermometer
Output Versions	PT100, 3-wire
Supply voltage	n/a
Temperature range	0 to +50°C
Accuracy	PT100, Class A
Response time	<10-15 seconds
Ambient temperature	-20 °C to +65 °C
Media temperature	-20 °C to +65 °C (non-freezing)
Storage temperature	-20 °C to +80 °C
Media wetted parts	UNS31803 Duplex Stainless Steel
Permissible media	All fluids compatible with media wetted parts
Electrical Connection	3-pin Subsea wet-mateable connector
Process connection	70mm to tip (excluding hex), M10x1.5 external thread
Environmental Protection	IP68, permanent submersion to 2000m depth

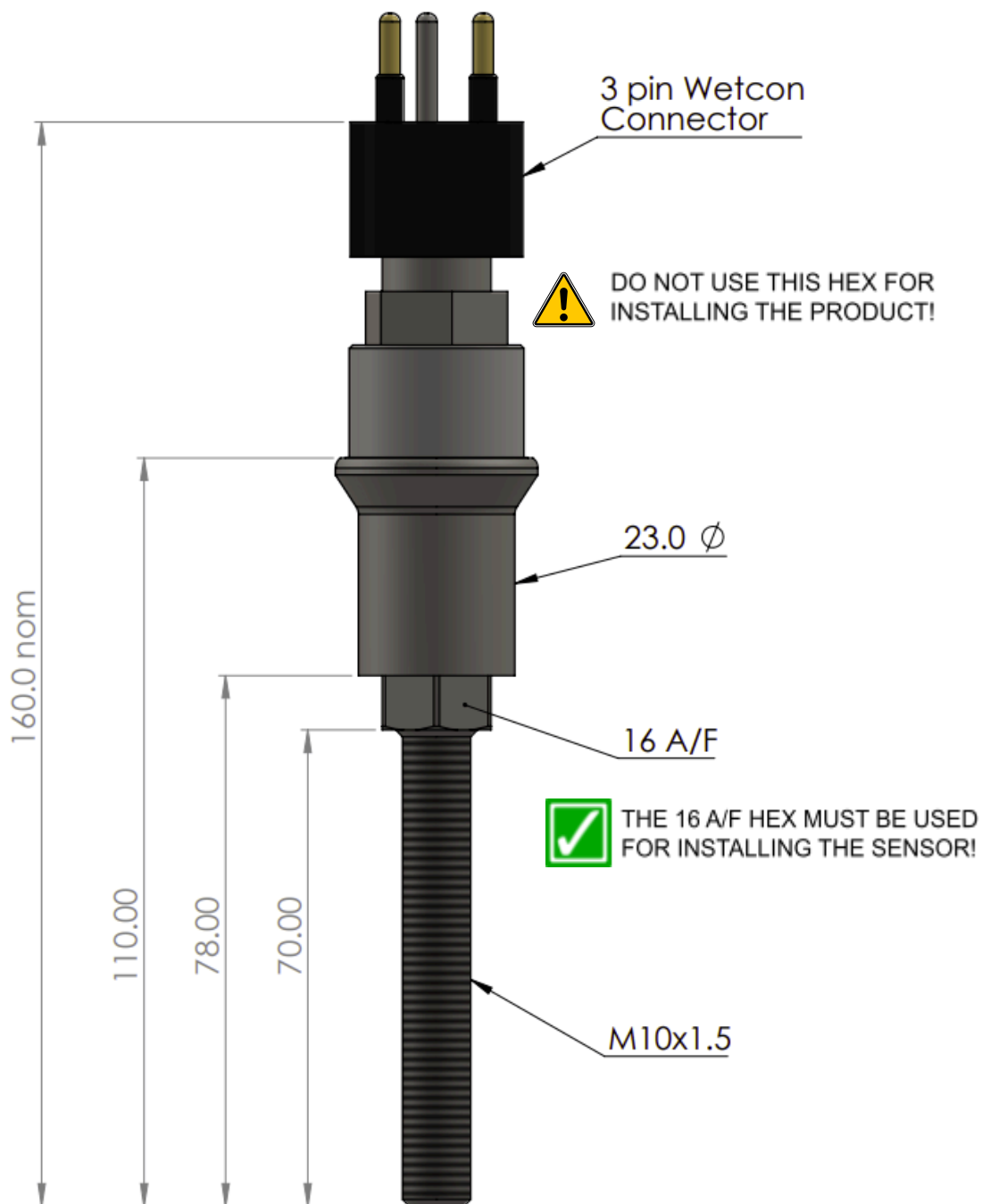
Wiring:

SSTT Series - Subsea temperature sensor			
	2-wire connection	3-wire connection	4-wire connection
1 sensor element			

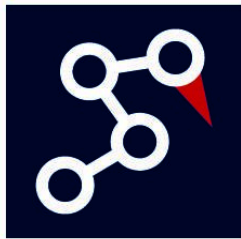


Dimensional Drawings:

SSTT Series - Subsea temperature sensor



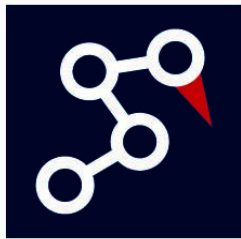
NOTE: Maximum Torque when installing by the M10 thread is 10 Nm



Part Numbering: SSTT-AX-3X-DXB-00

SSTT Series - Subsea temperature sensor

SSTT - SubSea Temperature Transmitter		SSTT-A X - 3 X - D X B - 0 0									
Output Type											
PT100, 3-wire Class A	A										
PT100, 4-wire Class A	C										
PT1000, 3-wire Class A	D										
PT1000, 4-wire Class A	E										
4-20mA / 2-wire	F										
Other (contact sales)	X										
Probe Length											
None	A										
25mm	B										
Electrical Connection											
2-pin Subsea wet-mateable connector						2					
3-pin Subsea wet-mateable connector						3					
4-pin Subsea wet-mateable connector						4					
Other (contact sales)						X					
Process Connection											
G1/4" male DIN 3852							G				
1/4" NPT male							N				
G1/2" male DIN 3852							H				
Other (contact sales)							X				
Housing Material											
UNS31803 Duplex Stainless Steel								D			
Marine Bronze CA104								M			
Titanium Alloy								T			
Other (contact sales)								X			
Seal Material											
Viton									V		
EPDM									E		
NBR									N		
Temperature Range											
0 to +100°C (standard)										A	
0 to +50°C										B	
-10 to +60°C										C	
0 to +35°C										D	
32 to +212°F										E	
0 to +122°F										F	
14 to 140°F										G	
32 to 95°F										H	
Custom										9	
Special Options											
None											0 0



Connecting the SSTT temperature probe:

SSTT Series - Subsea temperature sensor

The electrical connection is made by a wet mateable subsea connector, the details of the connector can be seen here: https://www.macartney.com/media/10773/circular_2_3_4and5_contacts.pdf are as follows:

Connector specifications

Voltage rating: 600 V DC/AC rms

2 contacts current rating: 10 A per contact (max 20 A per connector)

3, 4 and 5 contacts current rating: 10 A per contact (max 30 A per connector)

Insulation resistance: > 200 Mohm

Contact resistance: < 0.01 ohm

Wet matings: > 500 (open face rated)

Temperature rating (water): - 4 to 60°C, 25 to 140°F

Temperature rating (air): - 40 to 60°C, - 40 to 140°F

Storage temperature rating: - 40 to 60°C, - 40 to 140°F

Design depth rating: 1,400 bar, 20,000 psi

Qualified pressure tested: 800 bar, 11,600 psi

Depth rating PEEK: 300 bar, 4,350 psi

Material specifications

Connector body: Chloroprene rubber

Bulkhead body: Brass, stainless steel, titanium, anodised aluminium or PEEK

Contacts: Gold plated brass UNS - C36000

Location pin: Stainless steel AISI 303

O-rings: Nitrile

Locking sleeves: POM or stainless steel

Snap rings: Stainless steel AISI 302

2, 3 and 4 conductor inline cable (2 ft, 60 cm): 16 AWG, 1.31 mm² chloroprene rubber

5 conductor inline cable (2 ft, 60 cm): 18 AWG, 0.82 mm² chloroprene rubber

Bulkhead and PBOF leads (1 ft, 30 cm): 18 AWG, 0.82 mm² coloured PTFE

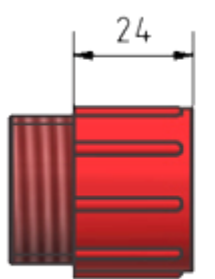
OM leads (3", 7 cm): 18 AWG, 0.82 mm² coloured PTFE



Face view (Male)



The SSTT is fitted with a DLSA-M Locking Sleeve and held to the connector by the DLSA snap ring:



DLSA-M

DLSA Snap Ring



This enables quick connection to be made to the mating inline cable or connector of your choice using the female version DLSA-F.

Any other information not listed please contact sales with specific questions.

E-mail: sales@stork.solutions