



## Thin-film sensor technology

# Wing Union Pressure Transmitter

Model 5WU1502-20 & 5WU2202-20

- Long term stability, durable and reliable design
- Technology based on extensive sub-sea experience
- Intrinsically safe
- 0,2% accuracy
- Hastelloy C22 and Inconel X-750 or 17-4PH material
- RFI/EMI protected
- 1502 & 2202, 2" wing union fitting
- Integrated PT-1000 temperature transmitter
- Standard pressure ranges up to 20,000 psi



## Applications

- Mud Logging
- Drilling
- Cementing
- Wellhead Measurements
- Fracturing
- Acidizing

## Description

The Wing Union Pressure Transmitter is an extremely rugged sensor designed for use with the two-inch wing union in the rough and demanding environment of high-pressure applications for both the on- and offshore industry. The transmitter includes a diaphragm with a thin film single bridge Strain Gauge and a PT-1000 temperature sensor, electro beam welded to a sensor bed. The sensing diaphragm design eliminate zero shift during hammer-up and eliminates long-term signal drift in the field. The electronic circuits are calibrated and temperature compensated in digital mode with an analogue 4- 20mA output signal.

The transmitter is designed to withstand vibration and shock as well as pressure peaks during operation. The union compatible fittings are machined of Hastelloy C22 & Inconel X-750 providing service with highly abrasive and corrosive media. Both configurations comply with international accepted standards for materials operating in corrosive environments.

The Scan-Sense AS' after sales organization and supply chain is ready to support customers needing fast response and quick delivery of transmitters damaged during use or in need of recalibration.

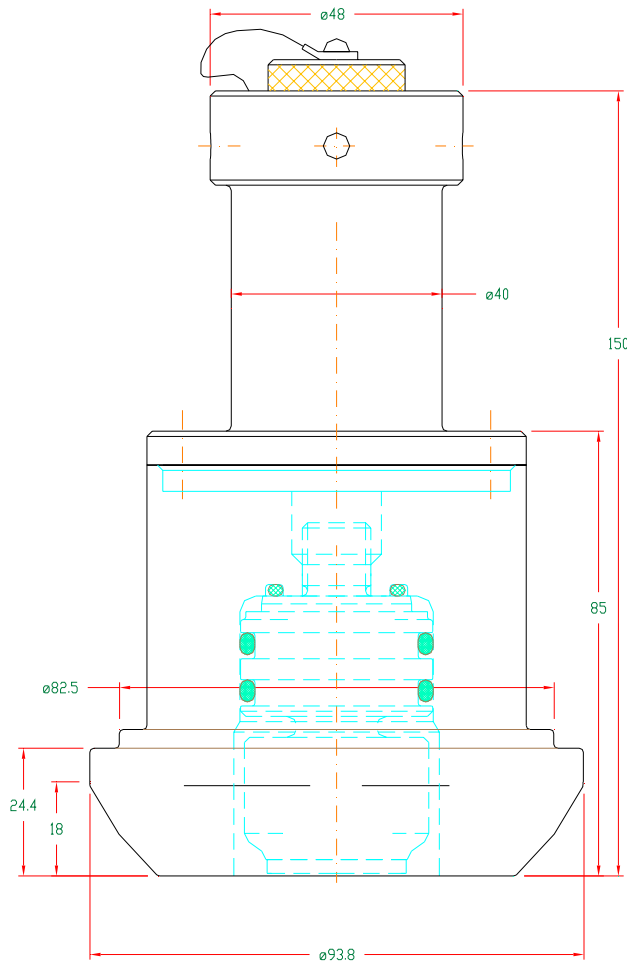
Pressure Ranges	0-5000psi, 0-6000psi, 0-7500psi, 0-10,000psi, 0-15,000psi, 20,000 psi
Safe Overpressure	1,5 x Rated Pressure
Bursting Pressure	2,5 x Rated Pressure
Pressure Connection	1502 & 2202 Wing Union, 2" Pipe, Male Sub end
Drift	< ± 0,1% FS/year
Repeatability	0,02 % Full Scale Output
Hysteresis	< ±0,05% FS
Linearity	< ±0,1% FS BSL
Operating Temperature, comp.	-20°C - 80°C
Operating Temperature, medium	-40°C - 140°C
Operating Temperature, storage	-40°C - 125°C
TCO (thermal effect on zero point)	< ±0,004% FS/°C
Supply Voltage	10 – 28 VDC
Output Signal	4- 20 mA. (two wire)
Response time	< 2ms
Electrical Connection	Glenair type GC379-2-14S-2P, 4 pin connector Pin B (S-), Pin C (S+)
Ingressive protection	IP68
CE Marking	Approved according to EU's EMC directives
Ex classification	EEx ia IIC T4, II 2 G, ATEX directive 94/9/EC
Options:	
- Other electrical connectors on request	
- Temperature output PT-1000	3,85 ohm/°C

**Further Information:**

You can get further information on our internet web page: [www.scansense.no](http://www.scansense.no)



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**Modell 1502**

Part no:

5WU1502-20-05-x	(5000psi)
5WU1502-20-06-x	(6000psi)
5WU1502-20-075-x	(7500psi)
5WU1502-20-10-x	(10000psi)
5WU1502-20-15-x	(15000psi)
5WU1502-20-20-x	(20000psi)

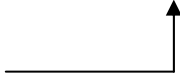


- 0= Glenair 4 pin (GC379-2-14S-2P)
- 1= Lemo 10 pin (4K, EGG, 310)
- 2= Jupiter 3 pin (REC 10 M)
- 3= Fixed cable, Draka BFOU(i) 250V
  - Mud resistant NEK 606 (type: S7)
  - Halogen free NEK 606 (type: S3)
  - Fire resistant IEC:60331

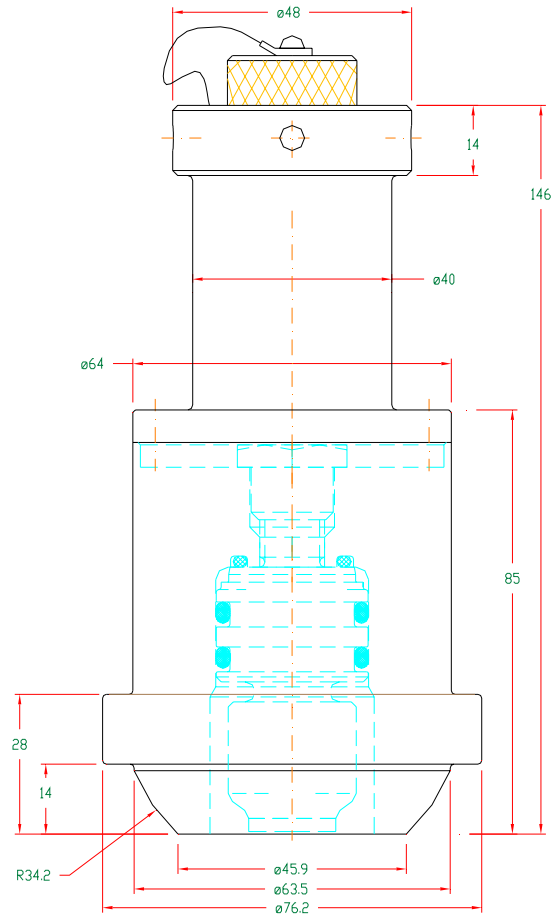
## Modell 2202

Part no:

5WU2202-20-15-x (15000psi)  
5WU2202-20-20-x (20000psi)



- 0= Glenair 4 pin (GC379-2-14S-2P)
- 1= Lemo 10 pin (4K, EGG, 310)
- 2= Jupiter 3 pin (REC 10 M)
- 3= Fixed cable, Draka BFOU(i) 250V
  - Mud resistant NEK 606 (type: S7)
  - Halogen free NEK 606 (type: S3)
  - Fire resistant IEC:60331



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