



LW /RW SERIES LINEAR TRANSDUCER DATA SHEET



BENEFITS

- API 17F 5th Edition/ ISO 13628-6:2006 Compliant
- Extensive subsea track record since 1996
- No external signal conditioning
- Excellent shock and vibration resistance (ESS TESTED TO API 17F 5th Edition)*

MECHANICAL PERFORMANCE

- FR58/90 Double Sealed Mounting
- Double-sealed sensor mounting

ELECTRICAL PERFORMANCE

- Absolute signal output
- 0.3mm Linear Accuracy
- 0.9° Radial Accuracy

ENCLOSURE & CONNECTOR

- Hyperbarically tested to 330 Bar
- 316L stainless steel, pressure tested
- Ø16 mm, and Ø19 mm tube options
- 300 bar / 3000 metre depth working pressure rating as standard.

OUTPUTS

- 2 Wire Current as standard
- Voltage/ 3 Wire Current options
- Dual Output option
- Calibratable Option (Linear)

TERMINATION

- Compatible with Teledyne ODI and Siemens Tronic connectors.



RELIABLE OPERATION TOUGH APPLICATION

Rota Limited (formerly known as Rota Engineering Limited) is based in Manchester, UK and was established in 1964. Our first subsea Linear Transducer was designed and manufactured in 1993.

QUALITY

Designing and building Transducers and Connectors for use in explosive atmospheres requires an obsession with quality. Rota's quality systems were originally approved to British Standard 5750 back in 1986 and are now assessed by BSI to ISO 9001:2015. The QA system is also audited by BSI and CSA for EX certified Transducers and Connectors.

Rota's environmental management system has achieved ISO 14001:2015 certification.

PERMANENT SUBSEA SENSORS

Principal applications include; HIPPS (High Integrity Pressure Protection System), SSIVs (Subsea Shutdown Valves), check valves, pigging valves.

Normally used on safety-critical systems subsea, including optional testing to API 17f / ISO 13628-6.

LW Welded 316 stainless steel subsea transducer rated to 3000m water depth*

RW Radial transducer with up to 90° Position Monitoring rated to 3000m water depth*

*Redundant (two-output) version available. Please contact Rota for more information.

SUBSEA LINEAR SENSORS

Principal applications include; ROV compensators/bladders, ROV controls/tooling, trenching, pipe laying, piling & grouting templates. Other applications include equipment used in conjunction with ROVs; pipe/cable lay including angle or tension measurement. Equipment designed for erection/construction of sub-sea bases for wind turbines or offshore installations and subsea templates for oil & gas production equipment. Also ballast tanks, fluid volume measurement and marine handling such as brakes/locks of anchor chains for floating/semi-submersible rigs & FPSOs. They are also used in high-pressure applications including valves/actuators for non-permanent installations.

SUBSEA SENSOR RANGE

LJW Welded 316 stainless steel subsea transducer rated to 5000m water depth

LFW Welded 316 stainless steel subsea transducer rated to 7200m water depth

LNW Normal-duty 316 stainless Steel independently pin-mounted transducer rated to 3000m water depth

LUW Ultra-heavy-duty 316 stainless steel independently pin-mounted transducer rated to 3000m water depth*

RTW Radial transducer with low resolution 90° position Monitoring

RJW Radial transducer with high resolution 270° position Monitoring

ROW Rotary transducer with high resolution 360° position monitoring