

TPSR DATASHEET (SOCOTEC holding 5no.)

SOCOTEC's Transducer Packer Slave Reeler (TPSR) is a self-contained wireline instrumented packer system designed for carrying out water pressure permeability tests ('packer tests') in boreholes. Single- and double- inflatable packer options are fitted to the end of a 100 m long umbilical water injection hose wound on a hydraulic-powered slave reeler winch.

Transducers fitted to the packer(s) monitor the test section and borehole pressures, including below the bottom packer in the double-packer configuration. Data cables, together with the packer inflation line, are combined as part of the umbilical hose.

The TPSR surface unit itself houses all water flow, pneumatic and data logging controls, including: water supply surge suppression, compressed gas supply, flowmeters and data logger.

The unit brings together a number of new ideas and innovations that makes this system efficient, safe and able to provide high quality ground data, including:

- ▶ Bespoke built & designed by SOCOTEC for testing in accordance with BS EN ISO 22282-3.
- ▶ Suitable for single and double packer tests to a depth of 200m
- ▶ Variable test section length from 1 to 5 m
- ▶ Suitable for borehole diameters from 85 to 155 mm
- ▶ Real time readout of test pressures (with data logging) and water flow
- ▶ Direct measurement of test section and borehole pressures – eliminates need for headloss correction
- ▶ Skid mounted for site transport using plant trailer or forklift/telehandler
- ▶ Supplied with calibration/test certificates for all instrumentation and equipment



TPSR DATASHEET

When being transported

Length	3.20m
Width	2.00m
Height	1.70m

Work area required in front of borehole

Length	6.50m
Width	4.00m
Height	4.00m-6.00m

Weight: 550kg (Dry)



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