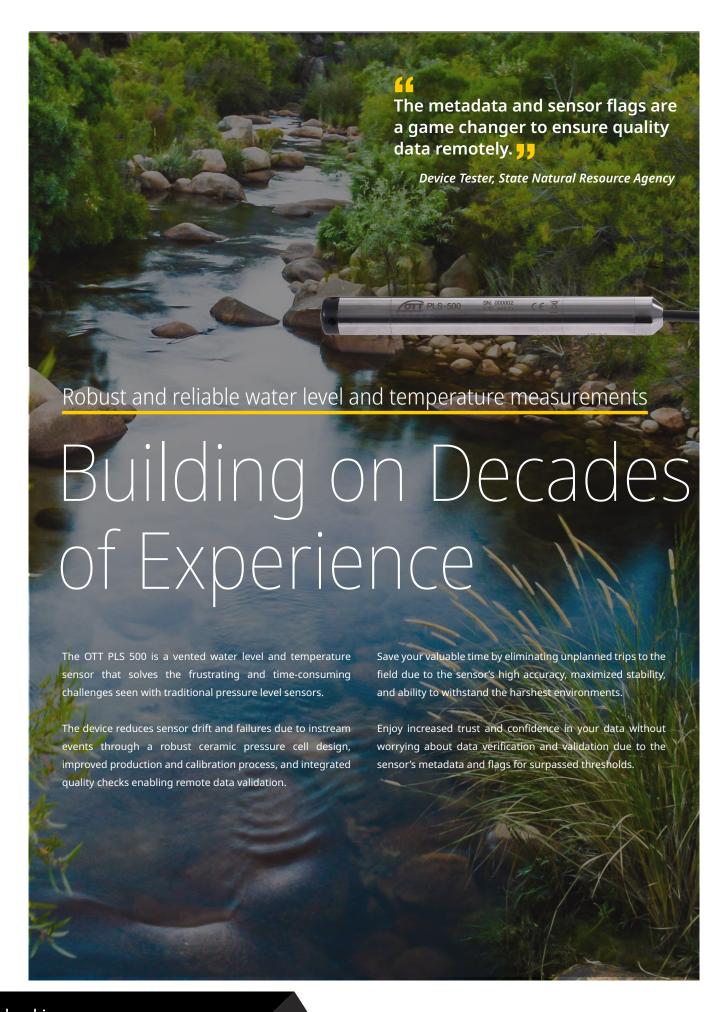


OTT HYDROMET PLS 500

SCIENTIFIC





Smart Sensor Benefits

The OTT PLS 500 includes built-in QA/QC and metadata to verify sensor performance and validate your data remotely, giving you confidence that your data is accurate.



Automatic Compensation

Automatically compensate for changes in atmospheric pressure. Reduce the amount of equipment needed in field by forgoing additional barometric pressure sensors and achieve better accuracy with a single compensated sensor.

Data Processing

Internally convert high frequency (4Hz) measurements to statistics such as computed averages, minimum/maximum levels, and instantaneous values over user-defined intervals, enabling greater information reporting and eliminating manual data post-processing/analysis.





Discharge Calculations

Automatically calculate discharge from either a user-defined rating table or ISO 1100-2 exponential formula set-up via SDI-12 commands. Minimize the need for data post-processing by directly outputting discharge from a trusted level sensor.

Position Sensor

Remotely monitor probe movement in the field with an internal inclinometer, enabling warnings if sensor position has changed due to in-stream events via automatic status flags or direct measurement.



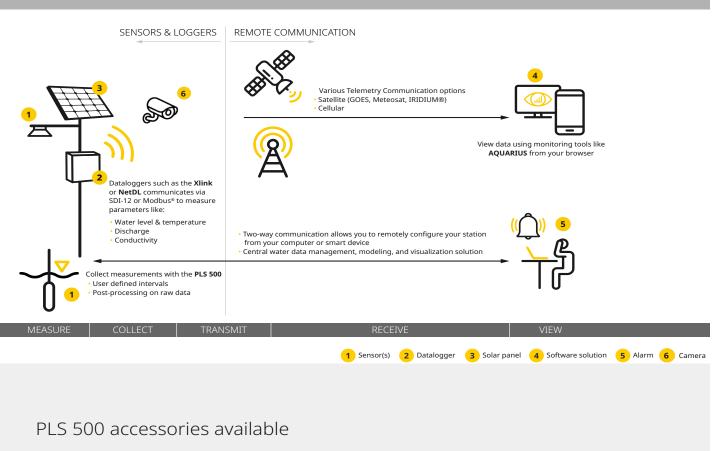


Internal Humidity Sensor

The integrated internal humidity sensor outputs automatic status flags or direct humidity measurements to help you understand if condensation may have formed, impacting your pressure measurements.

Full Solution

Hardware and software to enhance your monitoring network



Desiccant

The OTT FAD 6 is an easy-to-use desiccant that absorbs surrounding humidity. Change the desiccant easily while in the field through its replaceable cartridges.

USB/SDI-12 Adapter

Instantly set-up, check, and modify your sensor configurations by plugging the adapter into your computer and SDI-12 sensor. Save time with seamless sensor set up.

Cable suspension

Easily support the weight of your cable while monitoring groundwater parameters. The cable suspension device easily attaches to the top of a well for longer durations within deep wells.





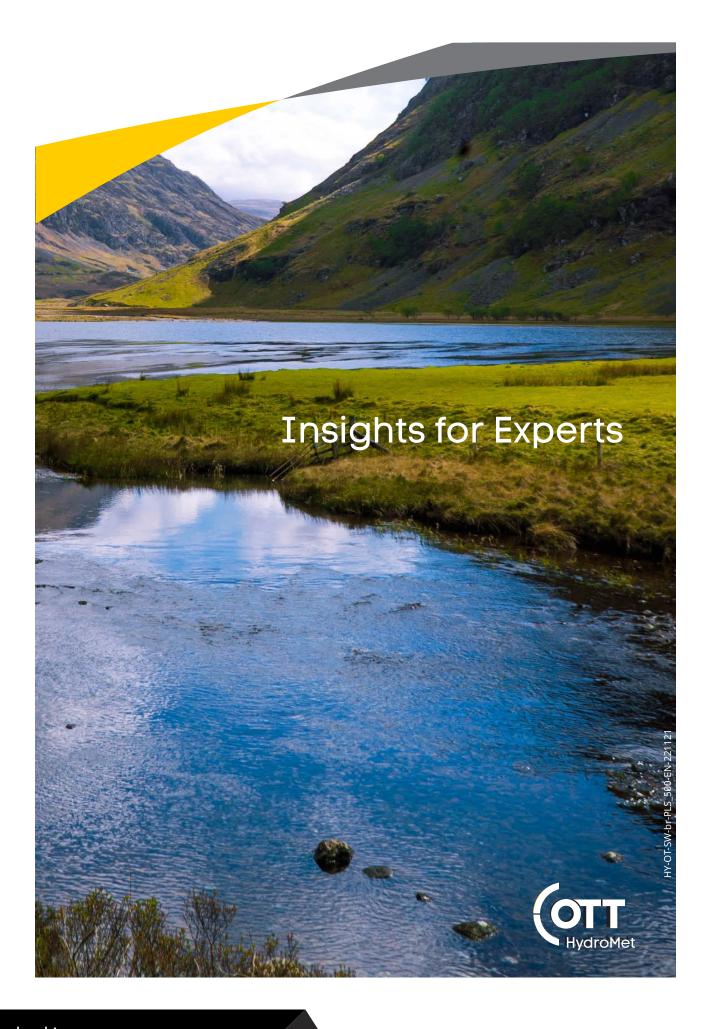


Technical Specifications

	WATER LEVEL (PRESSURE)	Measuring range	0 10 m water column / 0 1 bar	0 33 ft water column / 0 14.5 psi		
	WATER LEVEL (FRESSURE)			· ·		
Resolution						
		Pasalution				
For all measuring ranges			•			
Meess USSS OSW 13 mm / 0.5 m (20.5 m² (25.5 m² (For all measuring ranges				
Nysteresis Units			±3 mm / 0 5 m (-205 °C; +55 +70 °C) 0.010 ft / 0 17 ft (-4 +23 °F; +131 +158			
Pessure sensor			± 0.1 %/a full scale			
Temperature-compensated operating -20 °C (ice-free) 70 °C -44 °F (ice-free) #158 °F		Units	m, cm, mm, bar, mbar, kPa ft, inch, psi			
Measuring range		Pressure sensor	Ceramic / temperature compensated			
Resolution			-20 °C (ice-free) +70 °C -4 °F (ice-free) +158 °F			
Accuracy = 0.15 °C (Typ. ± 0.05 °C) = 0.07 °F (Typ. ± 0.03 °F)	TEMPERATURE	Measuring range	-40 °C +70 °C	-40 °F +158 °F		
NITERNAL RELATIVE HUMIDITY Measuring range		Resolution	0.01 °C	0.01 °F		
Masuring range 0.100% RH (non-condensing) Resolution 1% RH Accuracy \$ 1		Accuracy	± 0.15 °C (Typ. ± 0.05 °C)	± 0.07 °F (Typ. ± 0.03 °F)		
Resolution 1% RH Accuracy 138 (0100% RH) Accuracy 159 (0100% RH) Units 9, RH POWER Supply voltage 5.5.2.8.8 V typically 12/24 V DC Power consumption - sleep 5.5.2.8.8 V typically 12/24 V DC Power consumption - active 5.5.2.8.8 V typically 15 JuA Power consumption - active 5.5.2.8.8 V typically 15 JuA Power consumption - active 5.5.2.8.8 V typically 15 JuA Power consumption - active 5.5.2.8.8 V typically 15 JuA Power consumption - active 5.5.2.8 V typically 15 JuA Power consumption - active 5.5.2.8 V typically 15 JuA Power consumption - active 5.5.2.8 V typically 15 JuA RESUREMENT 850H-12 (v1-d), Modbus RTU MEASUREMENT Power research of sensor 10 the research of sensor 10 the remainder 10 the remaind		Units	°C	°F		
Resolution 1% RH Accuracy	INTERNAL RELATIVE HUMIDITY	Measuring range				
Accuracy						
POWER Supply voltage Supply voltage Power consumption - sleep Power consumption - selep Power consumption - active Power consumer Power consume			± 3% (0100% RH)			
Nome Supply voltage S.S28.8 V typically 12/24 V DC		Units				
Power consumption - sleep Power consumption - active AmAx typically 15 µA Power consumption - active AmAx typically 2.9 mA SDI-12 and RS-485 RS-485 protocols RS-485 protocols RS-485 protocols RS-485 protocols SDI-12 (V1.4), Modbus RTU Measured values Water level / water pressure Internal relative humidity Position of sensor Position of sensor Value processing Average pressure or level over measurement interval Maximum pressure or level over measurement interval Maximum pressure or level over measurement interval Maximum pressure or level over measurement interval Derived parameters Measurement interval Derived parameters Measurement interval Derived parameters Measurement interval Discharge Measurement interval Temperature range, operating -20 °C (Ke-free) +70 °C -4 °F (Ke-free) +158 °F Temperature range, storage -40°C +80 °C -40 °F +176 °F Humidity Pressure probe LXD: 194x22 mm LXD: 7.7 x 0.9 in Cable length* Pressure probe -55 g/m -650 g -22.9 oz Pressure probe cable Pressure probe cable Pressure probe housing Possure probe housing Possure probe housing POM, Stainless steel 1.4539 904L; resistant to sea water Membrane Cable jacket PUR (UV resistant) CE FCC/CES Suppliers Declaration of Conformity (SDoC) FCC Part 15 Rules Section §15.109	DOW/ED					
Power consumption - active	FOWER					
RS-485 protocols SDI-12 (V1.4), Modbus RTU Internal relative humidity Reasured values Resulted temperature Position of sensor Value processing Average pressure or level over measurement interval Minimum pressure or level over measurement interval Maximum pressure or level over measurement interval RS-485 protocols RS-485 protoc						
RS-485 protocols RS-485 protocols Water level / water pressure Water temperature Wate		Power consumption - active	< 4mA; typically 2.9 mA			
Measured values Water level / water pressure Water temperature Water temperature Position of sensor Value processing Average pressure or level over measurement interval Median pressure or level over measurement interval Maximum pressure or level over measurement interval Derived parameters Measurement interval Derived parameters Measurement interval Desived parameters Measurement interval Desived parameters Measurement interval Discharge Measurement interval 0.5 s 59.5 s (1.5 s default) Temperature range, operating -20 °C (ice-free) +70 °C -40 °F, +176 °F Humidity -0% 100 % IP rating (probe) -10 Pressure probe LXD: 194x22 mm LXD: 77 x 0.9 in Cable length* -650 g -22.9 oz Pressure probe -650 g -22.9 oz Pressure probe cable -55 g/m -0.59 oz/ft MATERIAL Pressure probe housing POM, Stainless steel 1.4539 (904L); resistant to sea water Membrane Cable jacket PUR (UV resistant) FCC FCC/ICES Suppliers Declaration of Conformity (SDoC) FCC Part 15 Rules Section §15.109 EEGLIAZORY EEGLIAZORY FCC FCC/ICES Suppliers Declaration of Conformity (SDoC) FCC Part 15 Rules Section §15.109	COMMUNICATION	Physical interfaces	SDI-12 and RS-485			
Water temperature Position of sensor		RS-485 protocols	SDI-12 (V1.4	I), Modbus RTU		
Value processing Average pressure or level over measurement interval Median pressure or level over measurement interval	MEASUREMENT	Measured values	Water level / water pressure	Internal relative humidity		
Minimum pressure or level over measurement interval Maximum pressure or level over measurement interval Derived parameters Measurement interval Discharge Measurement interval 1.5 s 59.5 s (1.5 s default) ENVIRONMENTAL Temperature range, operating -2.0 °C (ice-free) +70 °C -4.4 °F (ice-free) +158 °F Temperature range, storage -4.0 °C +80 °C -4.0 °C +80 °C -4.0 °C +176 °F Humidity -4.0 °C +80 °C -4.0 °C +176 °F Humidity -4.0 °C +176 °F Cable length* -4.0 °C +80 °C -4.0 °C +176 °F Pressure probe -4.0 °C +80 °C -4.0 °C +176 °F LXD: 194x22 mm -1.00 % -1.00			Water temperature	Position of sensor		
Interval Maximum pressure or level over measurement interval		Value processing	Average pressure or level over measurement interval	Median pressure or level over measurement interv		
Derived parameters						
Measurement interval 0.5 s 59.5 s (1.5 s default)						
### Temperature range, operating		Derived parameters	Discharge			
Temperature range, storage		Measurement interval	0.5 s 59.5 s (1.5 s default)			
Humidity	ENVIRONMENTAL	Temperature range, operating	-20 °C (ice-free) +70 °C	-4 °F (ice-free) +158 °F		
IP rating (probe)		Temperature range, storage	-40°C +80 °C	-40 °F +176 °F		
DIMENSIONS/WEIGHT Pressure probe LxD: 194x22 mm LxD: 7.7 x 0.9 in Cable length* 2 200 m, ± 1% / ± 5 cm 7 656 ft, ± 1% / ± 0.17 ft Pressure probe ~ 650 g ~ 22.9 oz Pressure probe cable ~ 55 g/m ~ 0.59 oz/ft MATERIAL Pressure probe housing POM, Stainless steel 1.4539 (904L); resistant to sea water Membrane AI203 ceramics Cable jacket PUR (UV resistant) REGULATORY FCC FCC/ICES Suppliers Declaration of Conformity (SDoC) FCC Part 15 Rules Section §15.109 CE IEC61326-1:2013		Humidity	0%.	100 %		
DIMENSIONS/WEIGHT Pressure probe LxD: 194x22 mm LxD: 7.7 x 0.9 in Cable length* 2 200 m, ± 1% / ± 5 cm 7 656 ft, ± 1% / ± 0.17 ft Pressure probe ~ 650 g ~ 22.9 oz Pressure probe cable ~ 55 g/m ~ 0.59 oz/ft MATERIAL Pressure probe housing POM, Stainless steel 1.4539 (904L); resistant to sea water Membrane AI203 ceramics Cable jacket PUR (UV resistant) REGULATORY FCC FCC/ICES Suppliers Declaration of Conformity (SDoC) FCC Part 15 Rules Section §15.109 CE IEC61326-1:2013		IP rating (probe)				
Pressure probe ~ 650 g ~ 22.9 oz Pressure probe cable ~ 55 g/m ~ 0.59 oz/ft MATERIAL Pressure probe housing POM, Stainless steel 1.4539 (904L); resistant to sea water Membrane AI203 ceramics Cable jacket PUR (UV resistant) FCC FCC/ICES Suppliers Declaration of Conformity (SDoC) FCC Part 15 Rules Section §15.109 CE IEC61326-1:2013	DIMENSIONS/WEIGHT		LxD: 194x22 mm	LxD: 7.7 x 0.9 in		
Pressure probe ~ 650 g ~ 22.9 oz Pressure probe cable ~ 55 g/m ~ 0.59 oz/ft MATERIAL Pressure probe housing POM, Stainless steel 1.4539 (904L); resistant to sea water Membrane AI203 ceramics Cable jacket PUR (UV resistant) FCC FCC/ICES Suppliers Declaration of Conformity (SDoC) FCC Part 15 Rules Section §15.109 CE IEC61326-1:2013		Cable length*	2 200 m, ± 1% / ± 5 cm	7 656 ft, ± 1% / ± 0.17 ft		
Pressure probe cable ~ 55 g/m ~ 0.59 oz/ft MATERIAL Pressure probe housing POM, Stainless steel 1.4539 (904L); resistant to sea water Membrane Al203 ceramics Cable jacket PUR (UV resistant) FCC FCC/ICES Suppliers Declaration of Conformity (SDoC) FCC Part 15 Rules Section \$15.109 CE IEC61326-1:2013		Pressure probe				
MATERIAL Pressure probe housing POM, Stainless steel 1.4539 (904L); resistant to sea water Membrane Cable jacket PUR (UV resistant) FCC FCC/ICES Suppliers Declaration of Conformity (SDoC) FCC Part 15 Rules Section \$15.109 CE IEC61326-1:2013			•			
Membrane AI203 ceramics Cable jacket PUR (UV resistant) FCC FCC/ICES Suppliers Declaration of Conformity (SDoC) FCC Part 15 Rules Section §15.109 CE IEC61326-1:2013	MATERIAL		·			
Cable jacket PUR (UV resistant) REGULATORY FCC FCC/ICES Suppliers Declaration of Conformity (SDoC) FCC Part 15 Rules Section §15.109 CE IEC61326-1:2013						
FCC FCC/ICES Suppliers Declaration of Conformity (SDoC) FCC Part 15 Rules Section §15.109 CE IEC61326-1:2013						
CE IEC61326-1:2013	DECLII ATODV					
	REGULATORY					
			IEC61326-1:2013 Measurement reliability / performance class 1			
			7			

^{*}Longer cable lengths available upon request.

Please check website for country availability. All technical specifications are subject to change without notice.



Hoskin Scientific Limited has been supplying testing and monitoring instruments since 1946. Our range is broad, we focus on three major markets including:

Geotechnical & Materials Testing Environmental Monitoring Test & Measurement Instrumentation



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