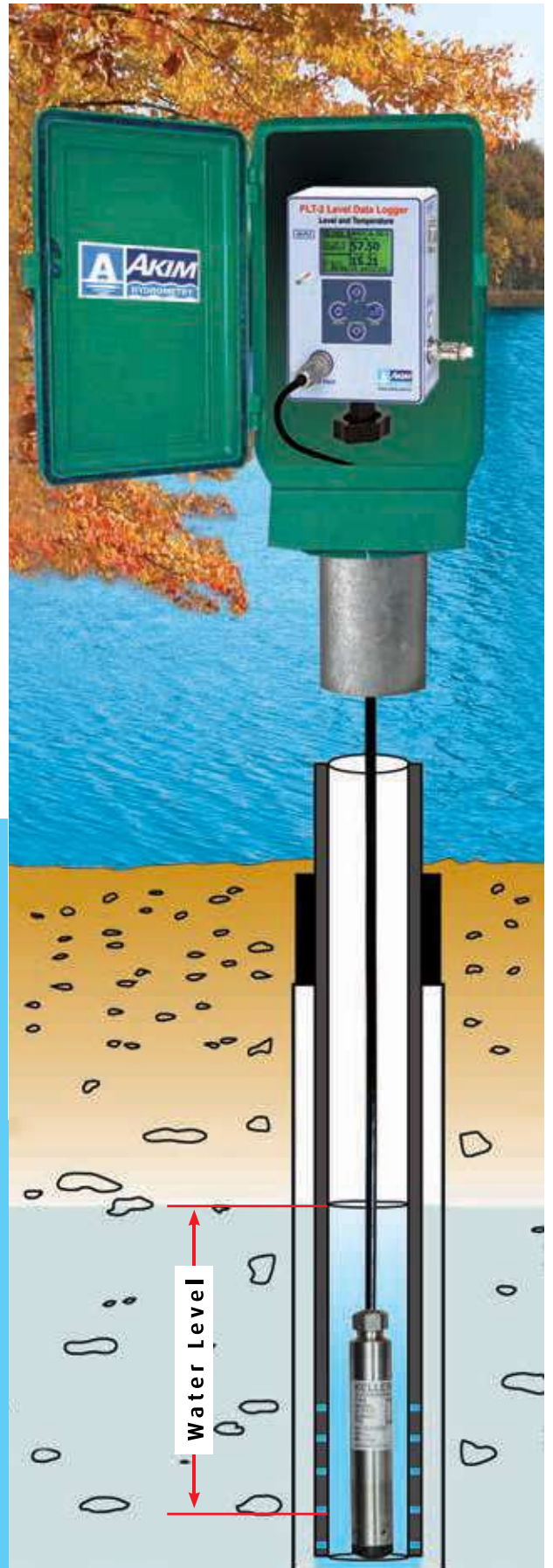


WATER LEVEL AND TEMPERATURE RECORDER WITH PRESSURE PROBE

PLT-02



PLT-02 Water Level and Temperature Recorder with Keller PR 36 XW Piezoresistive Pressure Probe is especially designed for the continuous Water Level and Temperature recording in:

- Dams, Lakes and Rivers
- Underground Wells
- Water Tanks
- In pipes and bore holes of small dia. (2")
- In not exactly vertical or curled bore holes or pipes
- In deep waters (up to 500 m.)
- 8 MB Ring Memory
- 128x64 Graphic Dot Matrix LCD display
- Battery life time >10 years
- Measuring Pressure Range: 0...300 mH₂O
- Resolution: 1 mm.
- Remote data collection with GSM/GPRS Modem
- Compact and robust design
- High quality pressure probe cable with pressure compensation capillary tube for the atmospheric pressure
- Communication Ports: RS232 interface, RS485 interface and USB
- Windows Data Management Software
- 3 years warranty

Water Level

Water Level



Data Logger

PLT-02 Pressure Probe KELLER PR-36 XW

Type	Level + Temperature Sensor
Memory	8 MB (Ring Memory)
Memory Storage Mode	Circle Mode (cyclic over writing old data)
Memory Storage Capacity	Storage capacity of data over approximately 100 years at a storage interval of 1 hour
Storage of	Instant Values and Instant Min./Max. Values, Daily Average Values and Daily Min./Max. Values are recorded
LCD Display	128x64 Graphic Dot Matrix (Displays actual water level and temperature, date/time, Level alarms, storage memory, sampling interval, min./max. value, last battery change, last read-out and setup parameter, 15 sec. auto shut off)
Keypad	4 keys. Built - in touch keypad for operation and set up over keypad
Data Transfer Rate	115.200 bps
Communication	RS 232 and USB interface via: Desktop Computer, Notebook, GSM/GPRS Data Modem (TCP/IP), , RF modem (optional) and Satellite (optional)
Communication Ports	RS232 Interface, RS485 Interface and USB
Power Supply	5,532 V. External
Real Time Clock	Quartz - controlled real-time clock. Automatic leap year calculation
Interval time	The sampling and logging intervals can be preset (from 1 minute to 24 hours) Back up Battery:3.6 V. Lithium internal (10 YEARS)
* SMS Alarm Signals	High water level alarm and Low Level alarm by SMS messages sent to GSM cellphones and PC's (incoming alarms are automatic from measuring stations)
* SMS Messenger	Text "AKIM" and send to Limnigraph side to Cellphones modem and receive "SMS LEVEL" on your cellphone
Read Out Unit	4...20 mA Analog output and RS-485
Protected Data	No data loss when battery is out or dead. Continues recording when it is connected to energy
Protection	IP 65
Working Temperature	- 40 °C to + 80 °C
Storage Temperature	- 40 °C to + 80 °C
Humidity	95 % relative
Weight	Approx. 1,5 kg.

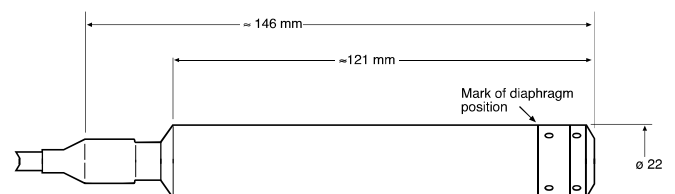
	(digital)	(analog)
Output	RS 485	4...20 mA (2-wire)
Supply (U)	8...28 Vcc	8...28 Vcc
Accuracy, Error Band ¹⁾ (0...50 °C)	0,1 %FS	0,15 %FS

¹⁾ Linearity + Hysteresis + Repeatability + Temp. Coeff. + Zero + Span Tolerance

Linearity (best straight line)	0,025 %FS
True Output Rate	100 Hz
Resolution	0,002 %FS
Long Term Stability typ.	Range ≤ 1 bar: 1 mbar Range > 1 bar: 0,1 %FS
Load Resistance (Ω)	< (U - 7 V) / 0,02 A (2-wire)
Electrical Connection	Cable: Polyethylene (PE), vented
Insulation	> 100 MΩ / 50 V
Storage/Operating Temperature Range	-20...80 °C
Pressure Endurance	10 Million Pressure Cycles 0...100 %FS at 25 °C
Vibration Endurance, IEC 68-2-6	20 g (5...2000 Hz, max. amplitude ± 3 mm)
Shock Endurance	20 g (11 ms)
Protection	IP 68, iceproof
CE-Conformity	EN 61000-6-1 to -6-4
Material in Contact with Media	Stainless Steel 316L (DIN 1.4435) / Viton® / PE
Weight (without cable)	≈ 200 g
Dead Volume Change	< 0,1 mm ³

Electrical Connections

Output	Function	Wire Color
4...20 mA	OUT/GND	White
2-wire	+Vcc	Black
0...10 V	GND	White
3-wire	OUT	Red
	+Vcc	Black
Program-	RS485A	Blue
ming	RS485B	Yellow



* GSM /GPRS Modem Function