

WATER LEVEL RECORDER WITH RADAR SENSOR

WLR-01



WLR-01 Water Level Recorder with VEGA Radar Sensors is a Contact Free Measuring System with high accuracy



- Measuring Range: 0...35 m.
- Measures water level or depth to water from a bridge, pier or mounting arm
- Remote data collection with GSM/GPRS Modem
- 8 MB Ring Memory
- Process Temperature: -20°C ... +80°C
- Monthly Time Deviation: ±1 min. Leap Year backup
- Data Recording Interval can be chosen as (1', 5', 10', 15', 30', 60' and multiples)
- LCD: 128x 64 Graphic Dot Matrix
- Battery Level, water level, instant temperature values and setup parameters can be read on LCD screen
- Interface: RS-232, RS-485, USB
- 4 ... 20 mA analog output for level
- 2 types of recording: Instant Value and Average Value in a minute
- With Laptop, modem and key pad: Station Name and Number, Basin Number, Zone Number and Staff Gauge Level can be entered. Data recording interval can be chosen and can be set up.
- Resolution: 1mm.
- Protection Class: IP 68
- Text "SMS" Message and "mail support" with the help of AKIM GPRS Modem and Akim Data Collector and Recording System



Data Logger

WLR-01

Type	Radar 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.

* GSM /GPRS Modem Function

Radar Sensors

VEGAPULS WL 61



Measuring range	0 ... 15 m
Process fitting	thread G1½ mounting strap compression flanges from DN 80, 3"
Process temperature	-40 ... +80 °C
Process pressure	-1 ... +2 bar (-100 ... +200 kPa)
Measuring precision	±2 mm

VEGAPULS 61



Measuring range	0 ... 35 m
Process fitting	thread from G1½, 1½ NPT flanges from DN 50, 2"
Process temperature	-40 ... +80 °C
Process pressure	-1 ... +3 bar (-100 ... +300 kPa)
Measuring precision	±2 mm
SIL qualification	optionally up to SIL2

VEGAPULS 62



Measuring range	0 ... 35 m (max)
Process fitting	thread from G1½, 1½ NPT flanges from DN 50, 2"
Process temperature	-200 ... +450 °C
Process pressure	-1 ... +160 bar (-100 ... +16000 kPa)
Measuring precision	±2 mm
SIL qualification	optionally up to SIL2

VEGASON 63 (Ultrasonic Sensor for Continuous Level Measurement)



Measuring range	in liquids: 0.6 ... 15 m in bulk solids: 0.6 ... 7 m
Process fitting	compression flange DN 100 mounting strap
Process temperature	-40 ... +80 °C
Process pressure	-0,2 ... +1 bar (-20 ... +100 kPa)
Measuring precision	±10 mm
SIL qualification	optionally up to SIL2