PRISMA Instruments

RADAR FLOWMETER

For open channel applications

Height & speed, contactless

Reference : DCOR River

Non-contact flow and liquid level measurement

Free-flowing watercourses: canals, rivers, non-full pipes...

Sustainability: insensitive to the nature of the fluid, maintenance-free

Suitable for harsh environments and weather conditions

Easy to install and use

Measurement speed : 0.1 to 25 m/s

Connection distance : 0.3 to 30 meters

Resolution : 0.1 mm/s

Measurement accuracy: ≤2%.

Communication : 4-20mA (2 or 4 wires) ~ RS485 Modbus ~ GPRS

Data transmission on mobile network

Autonomous data logger

Power supply: 12VDC, long-lasting battery or solar panel

Local or remote display

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DESCRIPTION

The **DCOR River** is an innovative open channel flowmeter, providing accurate flow calculation without any contact with the effluent and does not require the installation of an orifice. It has been specially designed to facilitate the measurement of flow in free-flowing water courses (canals, rivers, manholes, non-full pipes...) in a wide range of applications (water discharge, sanitation network, flood control and prevention, water and wastewater treatment...).

The **DCOR River** is built around a 24 GHz radar speed sensor combined with an ultrasonic level sensor. The radar uses the Doppler effect to detect the position and speed of moving particles. It is designed with the most state-of-the-art signal processing technology with a multi-point, multi-layer flow velocity analyzer. It can be installed either on the top or on the side of the stream depending on your needs or on-site conditions. The radar calculates a multitude of velocity values, and an average velocity will be generated. It also maps the water levels to obtain a flow rate with a very high accuracy. It used to be very time consuming and expensive to set up such a measurement, and the **DCOR River** flowmeter enables a big step forward in terms of accuracy, stability, performance, ease of use and sustainability.

FEATURES

Model	**DCOR River**
Measurement speed	0.1 to 25 m/s
Connection distance	0.3 to 30 meters
Resolution	0.1 mm/s
Measurement accuracy	≤2%
Data udpating cycle	1 second
Outputs & communications	4-20 Ma x2 wires or x4 fwires RS232, RS485 Modbus Autonomous datalogger Wireless communication
Transmission frequency	24 GHz (K-band)
Communication speed	115200 (standard)
Power supply	12~24 VDC Pls refer to : Options & Possibilities
Power consumption	1.75 W
Operating temperature	-35 ~ 70 °C
Dimensions	118 x 118 x 60 mm
Material	Metal composite material
Protection	IP68
Options & Possibilities	Battery or solar panel powered Local and/or remote data display Data processing: Real-time Tables, Graphs & Alarms

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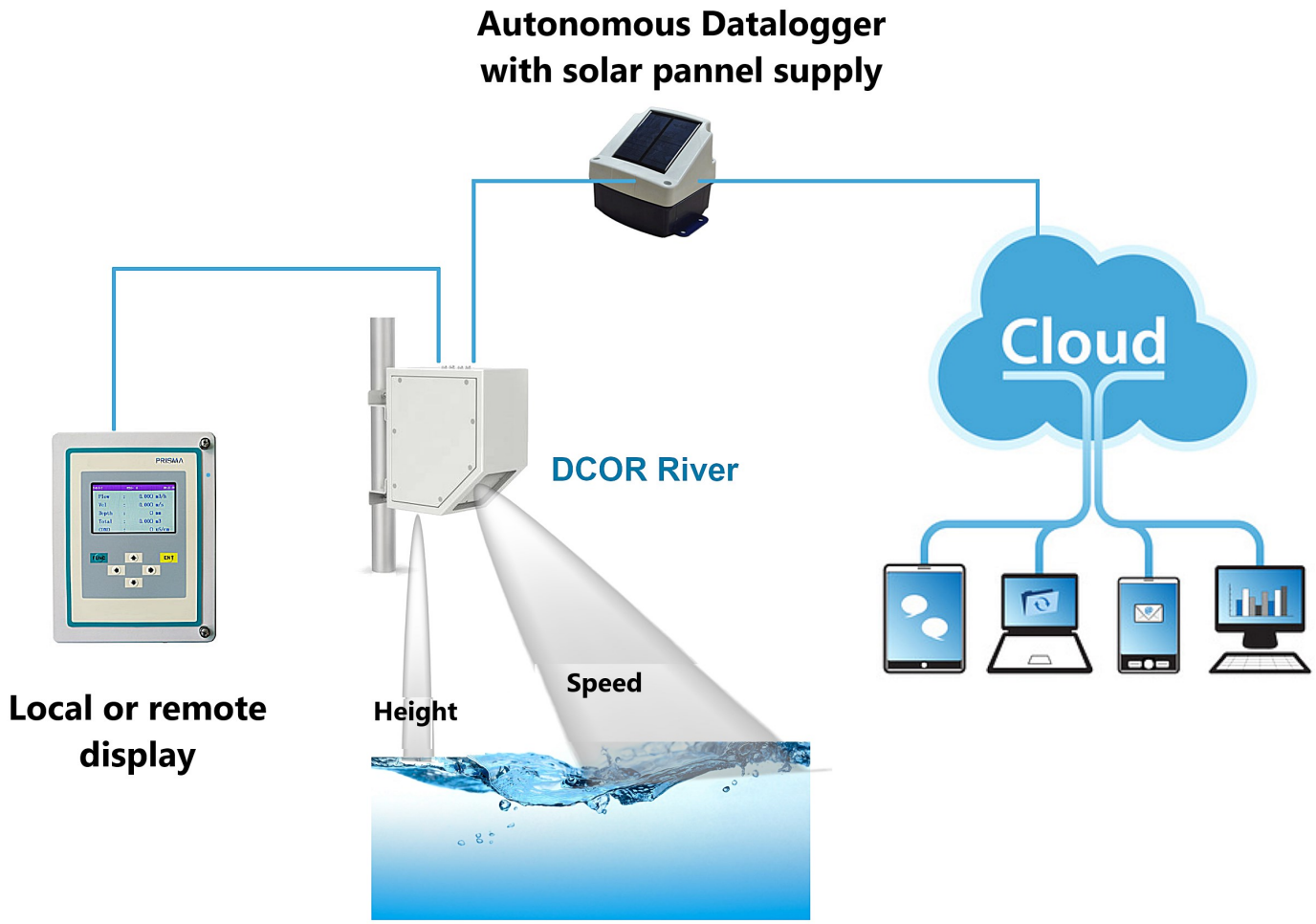
INSTALLATION & USE

The **DCOR River** radar flowmeter is made up of a waterproof housing, an electronic unit and a transmitting antenna. It can be installed either on the side or on the top of the watercourse to be measured according to the needs, and adapts perfectly to the conditions or requirements of a particular site. Its implementation is relatively simple, fast and cost-effective. It applies to all the fields of activities where a measurement of flow, volume and/or level of liquid is necessary or mandatory.

Once properly installed, it will achieve a completely autonomous and automated monitoring of the site with loads of display, alarms and data collection possibilities, either locally or deported (via a GTC, a mobile, on internet...)



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ADVANTAGES

- Contactless, unaffected by weather, sediment or floating objects
- Fast and super accurate measurement, reliable data suitable for changing environments
- Anti-condensation, waterproof and lightning resistant design, suitable for harsh environments
- Compact & robust, with military components guaranteeing the longevity of the device (100000 hours)
- Low power consumption, environmental protection, can be powered by solar cells
- Multiple interface as well as data collection and processing possibilities
- Easy to implement & use.

APPLICATION

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