



Discharge Radar RQ-30 ADMS

WELL PROVEN RQ-30 DISCHARGE MEASUREMENT WITH DATA LOGGER AND DATA TRANSMISSION IN COMPACT Housing

The RQ-30 ADMS is an all-in-one discharge measurement System. It contains the non-contact flow velocity and water level sensors of the RQ- 30 and applies the same algorithms and model to calculate the discharge in the RQ-30 sensor.

The rechargeable batteries allow autonomous operation for several month and the integrated charge controller provides for an easy connection of a solar panel. The integrated data logger of the RQ-30 ADMS offers wireless 2-way data communication. The 2-way communication makes it possible to remotely access the sensor and data logger anytime from anywhere.

Notifications by E-mail and SMS are a standard feature of the RQ-30 ADMS. Optionally, the RQ-30 ADMS can be equipped with a SOMMER Time laps camera for visual surveillance of the monitoring site.

Technical details

- **Protection class** IP 66
- **Battery** 24 Ah / 12 V
- **Recommended solar panel (for mid-latitude)** 20 W
- **Power consumption** active operation 150 mA, standby 3 mA (total system)
- **Operating temperature** - 20° ... 85° C
- **Total weight** 19.5 kg
- **Mischellaneous** over voltage protection, reverse power protection, lightning protection

Waterlevel measurement

- **Measuring range** 0 ... 15 m standard version / 0 ... 35 m extended version
- **Resolution** 1 mm
- **Accuracy** +/- 2 mm
- **Radar frequency** 26 GHz (K-Band)
- **Radar opening angle** 10°

Velocity measurement

- **Measuring range** 0.08 ... 16 m/s (depending on flow conditions)
- **Accuracy** +/- 0.01 m/s; +/- 1 % FS
- **Resolution** 1 mm/s
- **Direction recognition** +/-
- **Measurement duration** 5 ... 240 sec.
- **Measurement interval** 8 sec. ... 5h
- **Measuring frequency** 24 GHz (K-Band)
- **Radar opening angle** 12°
- **Distance to water surface** 0.50 ... 35 m

Data transmission

- **Supported networks** quad band EGSM 850 / 900 / 1800 / 1900 MHz networks
- **Transmission power** class 4 (2W) with 850 / 900 MHz; class 1 (1W) with 1800 / 1900 MHz
- **2G/3G/4G** up to 14.4 kbps (transparent) and 9.6 kbps (non-transparent)
- **Data transfer** FTP server or HTTP server
- **MDS server**: package including database, station- /user management and data visualisation via web browser

Data logger

- **Storage** up to 500,000 values
- **Data readout** remotely
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