

#### What is it?

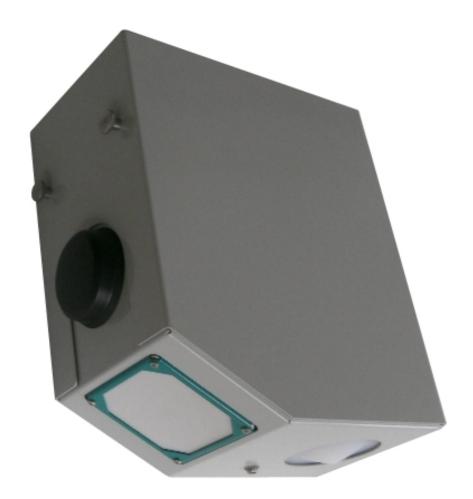
The RQ-30 ADMS is an all-in-one discharge measurement system, suitable for spot-measurements, temporary applications or stationary long-term installations. It contains the contact-free flow velocity and water level sensors of the RQ-30 and applies the same algorithms to compute the water discharge.

The rechargeable batteries allow autonomous operation for several weeks and the integrated charge controller provides for the connection of a solar panel. The data logger of the RQ-30 ADMS offers wireless data transmission to FTP and HTTP servers, and notifications by E-mail and SMS.

In that way the user can retrieve the latest data online and therefore has an overview of the potential danger spots at any time.

Additionally, a notification service can be configured, which informs people in charge about any violation of limit values, e.g. if there is a risk of flooding.

The RQ-30 ADMS provids a complete and immediately available discharge measurement system. It is suitable for longterm measurements with solar power supply as well as autonomous temporary measurement campaigns.



## Integrated data logger MRL-7

- RS-232 interface , USB and Bluetooth
- 4 MB flash memory (equiv. to approx. 500.000 values)
- Aggregation functions: mean values, intensity, maximum, etc.
- Rechargeable 24 Ah battery; easy to exchange, lifetime power capacity up to 10 weeks at a measuring interval of 5 minutes and two data transmissions per day
- Options: solar panel, time laps camera





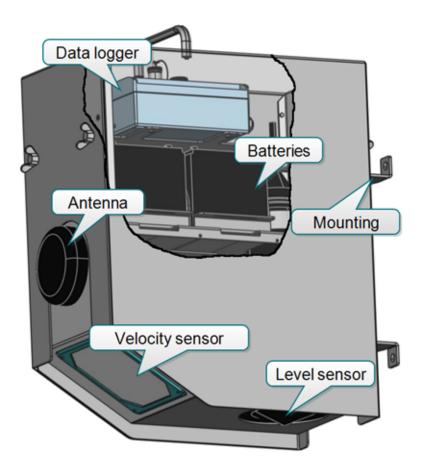
## Integrated data modem

- Remote data transmission with 2G / 3G (4G optionally); optionally,GPS for location detection
- Up to three target servers; HTTP and/or FTP
- Independent user defined transmission intervals
- IP calls for remote servicing
- Time synchronisation via NTP (Network Time Protocol)



# Versions

Art	Version
20786	RQ-30 Automatic discharge measurement system, 15m
20787	RQ-30 Automatic discharge measurement system, 35m



## Accessories

Art	Accessory
10085*	Lead-acid battery LC-RA1212P, 12 VDC/12 Ah
20989	Solar panel 50W with 60-mm tube mount and 5-m cable
20595	Digital time laps camera
20629	RQ-30 ADMS/SQ-mobile charger

<sup>\*</sup> The RQ-30 ADMS requires two batteries



## **Technical data**

Physical and environmental				
Power supply	928 VDC; Reverse voltage protection, overvoltage protection Battery capacity 24 Ah/12 V; 20-W solar panel recommended for mid latitudes			
Power consumption at 12 VDC	Standby approx. 3 mA Active measurement approx. 120 mA			
Outputs	RS-485 ASCII / Modbus RTU SDI-12			
Operating temperature	-4060 °C (-40140 °F)			
Storage temperature	-4060 °C (-40140 °F)			
Relative humidity	0100 %			
Protection rating	IP66			
Lightning protection	Integrated protection against indirect lightning with a discharge capacity of 0,6 kW Ppp			

Physical and environmental		Velocity		
Housing material	Powder coated aluminum, vandalism-proof	Detectable measurement range	0.0816 m/s (depending on waves)	
Mounting bracket	Ø3448 mm	Accuracy	± 0.01 m/s (certified by METAS)	
Size L x W x H 430 x 202 x 419 mm (16.93 x 7.95 x 16.50 in)		Resolution	1 mm/s	
Weight	15.5 kg (34.17 lb) plus 7.4 kg (16.31 lb) lead acid batteries	Direction recognition	+/-	
	patteries	Measurement duration	5240 s	
Data logger and communication		Measurement interval	8 s5 h	
Memory	4 MB internal flash memory (equivalent to approx. 500'000 measurement values)	Measurement frequency	24 GHz (K-Band)	
	32 GB SD-card (write only)	Radar opening angle	12°	
Mobile modem	2G, 3G (optionally 4G) 3 FTP/HTTP servers	Distance to water surface	0.5035 m	
	Functions: IP call, fixed IP, time-synchronization via NTP, e-Mail and SMS messages	Vertical inclination	Measured internally	

#### Automatic vertical angle compensation

Accuracy	±1°
Resolution	± 0.1 °

Water level measurement	15 m	35 m	75 m
Measurement range (distance between level sensor and water surface)	015 m (049.21 ft.)	035 m (0114.83 ft.)	075 m (0246.06 ft.)
Measurement frequency	80 GHz	26 GHz	80 GHz
Resolution		2 mm	
Accuracy		± 0.025 % FS	
Level sensor opening angle	8°	10°	8°



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