

Product Data Sheet For **Ultrasonic Liquid Flow Meter UVR-011 A2.1/H-K**

PRODUCT DATA SHEET		No 31_PDS_UVR-011 A2.1/H-K_13112017	
Ultrasonic Liquid Flow Meter with clamp-on sensors for filled pipeline (one channel)			
Description		Specification	
Manufacturer	Energoflow AG, Ringstrasse 28, CH-4600 Olten, Switzerland (www.energoflow.com)		
Fabricated by	PJSC Tahion, for and as per specifications of Energoflow AG		
Model	UVR-011 A2.2/H-K		
Medium	Water, Oil, Hexane		
Measurement quantities	Volumetric flow rate and Flow Velocity		
Flow Velocity Range	From 0,1 m/s to 10,0 m/s		
Pipe ID, mm	From 70 up to 3200		
No. of measurement channels	1		
Number of sensors, pair	1		
Mounting	Remote Installed Electronic Unit		
Sensor installation	Mechanical clamp-on type		
Sensor repeatability (better than)	±1%		
Accuracy (better than)	±1,5%		
Range of operating temperature for the sensors, (°C)	-20...+120 at 98% RH		
Range of operating temperature for the EU, (°C)	+5....+45 at 80% RH		
Ambient Temperature, (°C)	-20...+120		
Signal Output	2 relay outputs (SPDT)		
Serial Communication Interface	Modbus over RS-485 / RS-232		
Ingress Protection (Sensor)	IP 67		
Ingress Protection (EU)	IP45		
Hazardous area certification	NA		
Power Supply	24 VDC/220VAC with built-in accumulator		

1. DATA LOGGER WITH INTEGRAL GSM/GPRS MODEM

Parameter Name	Parameter Specification	
Measurement	4-20 mA or RS485	responds to requirements
Power Supply	12/24V DC or 7-8 V battery	responds to requirements
UPS	Internal battery back-up power	responds to requirements
Inputs	Analogue 4 inputs and digital 4 inputs	
Outputs	Digital 1 or 2 outputs	responds to requirements
Operating Temperature Range	-20 to +50 C	responds to requirements
GSM/GPRS Modem	Quad-band 850, 900, 1800 and 1900 Direct connect to GSM/GPRS with a SIM card	responds to requirements
Communication Ports	RS 232, Ethernet, USB or RS 485; ModBus RTU - baud rates 4800, 9600, 19200, 38400, 57600, and 115200 bit/second for programming and configuration	responds to requirements
Data Communication	Enable to upload data to a remote server on a programmable schedule and connect to a remote server database via dynamic domain name or static IP address	responds to requirements
Internal data storage	No less than 10,000 readings should the GSM/GPRS connection be lost and uploads readings when the connection is re-established	responds to requirements
Enclosure	IP-65 rated construction	responds to requirements
Antenna	External	responds to requirements
Software	Utility software for setting up input parameters for both analogue and digital inputs for the data logger. Software compatible with MS Windows Operating System	responds to requirements