

UDM 101 Energy

Ultrasonic Flowmeter

The Ultrasonic Flowmeter UDM 101 Energy is a state-of-the-art universal transit-time flowmeter designed using FPGA chip and low-voltage broadband pulse transmission.

Comparing with other traditional flowmeter or ultrasonic flowmeter, it has distinctive features such as high precision, high reliability, high capability and low cost.

The device has temperature sensors and a temperature measurement card, to measure the amount of heat.

Ultrasonic Flowmeter features:

- TVT technology designed
- Less hardware components, low voltage broadband pulse transmission, low consumption power
- Clear, user-friendly menu selections make flowmeter simple and convenient to use
- Daily, monthly and yearly totalized flow
Parallel operation of positive, negative and net flow totalizes with scale factor (span) and 7 digit display, while the output of totalize pulse and frequency output are transmitted via relay and open collector.



SPECIFICATION

PERFORMANCE SPECIFICATIONS

Flowrange	±0,01 m/s ~ ±5,00 m/s
Accuracy	±1 % of measured value
Pipe size	DN25 ~ DN1200
Pipe material	Steel, stainless steel, cast iron, ductile cast iron, copper, PVC, aluminium, asbestos and fiberglass / epoxy
Fluid	Water / sewage water

FUNCTION SPECIFICATIONS

Outputs	OCT Pulse output: 0 ~ 5000Hz Analog output: 4 ~ 20mA, max load 750Ω
Communication interface	RS485 Modbus
Power supply	10-36 VDC / 1A
Keypad	16 (4x4) keys
Display	20x2 lattice alphanumeric, back lit LCD
Temperature	UDM101: -10 °C ~ + 50 °C Sensors: 0 °C ~ 80 °C
Humidity	Up to 99% RH, non-condensing

PHYSICAL SPECIFICATIONS

Transmitter	UDM101: IP65 Sensors: IP68
Transducer cable	9 m (up to 300 m possible)
Weight	UDM101: 0,7 kg Sensors: 0,4 kg
Dimensions WxHxD	UDM101: 150,0 x 155,0 x 68,0 mm Sensors: 31,8 x 55,0 x 23,5 mm