יונייטד מכשור בע"מ
מד זרימה אולטראסוני לפס דין UIL-100M

- **8-36VDC**
- **RS485 ,4-20mA and OCT output**
- **4-20mA and PT100 platinum resistance input**
- **2×20 English letters LCD display**
- **4 key tactile-feedback membrane keypad**
- **IP57**
- **Operate with clamp on, insertion and flow-cell transducer**
- **Pipe diameters from 15mm to 6000mm**

S2-type transducer

M2-type transducer

The UIL ultrasonic flow meter is designed to measure the fluid velocity of liquid within a closed conduit. The transducers are a non-contacting, clamp-on type, which will provide benefits of non-fouling operation and easy installation.

The UIL-100M transit time flow meter utilizes two transducers that function as both ultrasonic transmitters and receivers. The transducers are clamped on the outside of a closed pipe at a specific distance from each other.
The transducers can be mounted in V-method where the sound transverses the pipe twice, or W-method where the sound transverses the pipe four times, or in Z-method where the transducers are mounted on opposite sides of the pipe and the sound crosses the pipe once.
This selection of the mounting method depends on pipe and liquid characteristics.
The flow meter operates by alternately transmitting and receiving a frequency modulated burst of sound energy between the two transducers and measuring the transit time that it takes for sound to travel between the two transducers. The difference in the transit time measured is directly and exactly related to the velocity of the liquid in the pipe.

ת.ד. 36773 תל–אביב 61367 טל' 03–6883244 פקס 03-5376157
P.O.B. 36773 TEL-AVIV 61367 ISRAEL TEL. 972-3-6883244 FAX 972-3-5376157
E-MAIL info@united.co.il דואר אלקטרוני INTERNET www.united.co.il אתר אינטרנט

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The UIL-100M is a low cost ultrasonic flow meter with analog , pulse , relay and modbus RS485 outputs.
It also used as heatmeter and has 2 input channels for pt100 sensors.

S2-type transducer

M2-type transducer

L2-type transducer

Transducer Options

Technical parameters	S2-type	M2-type	L2-type
Pipe size (mm)	DN15~100	DN50~700	DN300~6000
Pipe size (inch)	(1/2~4")	(2~28")	(12~240")
Material	Plastic alloy		
Frequency	1MHz		
Installation method	V(N/W)	V/Z	Z
Calibration	Calibrate with main unit		
Magnetism	Magnetic		
Temperature	32F~320F (0℃~160℃)		
Protection class	IP65		
Dimension (mm)	45×30×30	71×37×40	91×52×44
Weight (g)	75	259	535
Liquid types	Water、sea water、waste water, chemical liquids, oil, crude oil, alcohol, beer, etc.		
Suspension concentration	< 10,000ppm and particle size less than 80um. May contain very small amount of air bubbles.		
Pipe material	Carbon steel、stainless steel、cast iron、copper、 PVC、aluminum、fiberglass-epoxy, ect. Allow pipe liner		

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