

Ultrasonic Flow Meter

SonicPro (NX-SERIES)



Acam Madar Asan Ltd. co.

Industrial Flowmeter



Residential-Domestic Flowmeter



Technology:

Ultrasonic meters is based on state-of-art technology that produced by Acam Madar Ltd. Co. for residential and industrial usage. Using the "transit-time" differential measuring technology in pair ultrasonic sensors to get high accuracy and reliability in all metering uses.

Application:

Smart cold and hot water metering and for all low viscosity medium in all pipe sizes.



Features:

- Ultrasonic water meter with long-term stability under difficult conditions (no Measurement of air and no moving parts)
- Higher performance than class D requirements
- Metrological class 2 and dynamic range up to $Q3/Q1=R 400$
- Compliant with MID, OIML R49 and EN 14154
- Mounting in any installation position, no calming sections required
- Housing thread connection lead-free brass and flanged connection healthy ductile Iron
- IP68 suitable for outdoor installations
- Wired M-Bus, Radio OMS, Radio/L-Bus and Pulse interface available
- Radio communication based on Open Metering telegram (OMS-Generation 3, Profile A, or OMS-Generation 4, Profile B, selectable)-LoRa, Sigfox, GSM/GPRS, NB-IoT
- Highest data security for AMR communication
- Displaying of error- and alarm codes, including leakage detection
- Battery lifetime up to 16 years
- Data logging capabilities to record and send data in configurable values (hourly, daily, weekly, monthly) and an annual due date
- Real time monitoring application for bi-directional command for controlling and monitoring

Technical Details

SonicPro (NX-SERIES)	
Power Supply	With VAC: 220 , 110 VAC With Battery VDC: 3.6 VDC – 4000 (mAh) – 16 Years
Nominal Pressure (bar)	PN 16 Pressure Loss @ Q3 <0.16
Optional Radio Interfaces	Wired: M-Bus, Mod-Bus, Pulse (Open-Collector), RS485-RS232 Wireless: M-Bus, Radio 434868- MHz, LoRa WAN, Sigfox, GSM/GPRS, IoT, NB-IoT, Wi-Fi (TCP/IP), NFC
Optional Interfaces	Electric Valve, RFID Reader/Writer
Protection Class	IP68
Temperature (°C)	Medium Range: 0.1 ~ 90 Ambient Operation: -20 ~ 85 Ambient Storage: -40 ~ 85
Pipe Range (mm)	DN15 (1/2") ~ DN300 (12")
Dynamic Range (Q3/Q1)	R160/R250/R400/R800
Repeatability (%)	± 0.05
Accuracy (%)	Q1<Q<Q2 : ±1 Q>Q2 : ±0.5
Display	LCD, 8 digits (5 digits m3 + 3 digits Liter) Date/Time, Reverse Flow, Battery, Leakage, Dry, Burst, Temperature, Tamper, Radio, Error Code
Class	Environment: E1/M1 Ambient: C / EN 14 154 Temperature: T30, T30/T90, T90
Approval	OIML R49 2013 –MID in Progress 17025 Test flow National Standard of IRAN – MOH Healthy ISO45001:2018, ISO9001:2015, ISO14001: 2015, ISO10004: 2018, CE-Issued by BQS Certification

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