Techknave

INSERTION TYPE ULTRASONIC FLOW METER

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COMMUNICATION INTERFACE

Modbus BACnet M-Bus 4G LTE

- » HIGH PERFORMANCE
- » COMPACT
- » ROBUST
- » RELIABLE
- » CLOUD CONNECTED
- » INDUSTRIAL GRADE

INTRODUCTION

The insertion ultrasonic flowmeter consists of a converter and a insertion type sensor.
Insertion type sensors can be installed by simply opening two mounting holes in the pipe surface. With the special opening tool, the insertion type ultrasonic sensor can be installed without water stop. Since the sensor is directly in contact with the fluid, the measurement is stable and reliable.

Pipe Size Starting from DN50 to DN 6000 .Techknave TKN 205 offers MODBUS TCP,BACNET /IP and MBus Communication interface. GPRS/4G module available for remote monitoring and remote control through UENERGY cloud Server Platform.

MEASURING DIAGRAM

Flow Measurement | **Energy/BTU**

FLOW TRANSDUCERS

Flow Transducer Type	Picture	Model	Size
Insertion type Flow Transducer		TC-1 – Standard insertion	DN50-6000
		TC-2 – Extended insertion	
		TP-1 – Parallel mounted	DN200-6000

TEMPERATURE TRANSDUCERS

Temperature Transducer Type	Picture	Model
Insertion type Temperature Sensor		Pt 100

APPLICATIONS:

» Flow meter verifications
» Energy Audits
» Network Metering
» Food, Beverage & Pharmaceutical plants
» Petrochemical industry

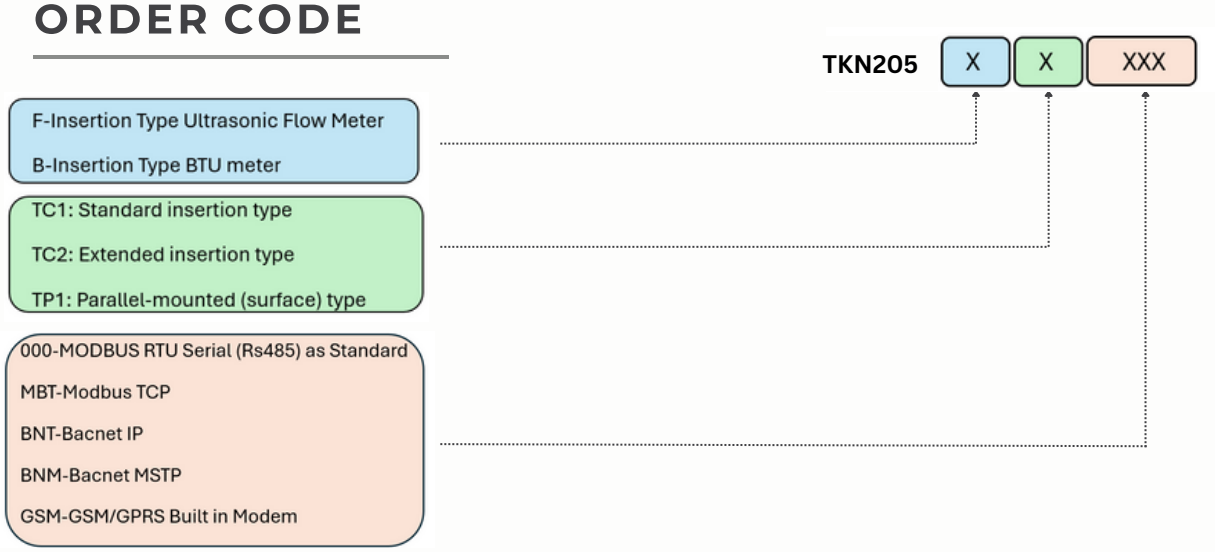
CLOUD SERVER CONNECTED

TKN 205 GSM model helps to connect flowmeters to UBILL /UENERGY IOT solution. The subscription-based service helps the meter to automatically monitor real time values, log, analyze and notify all critical parameters of the meters. The platform helps the Energy consultants, utility companies, ESCO managers to evaluate timely insights of flow consumption.

COMMUNICATION INTERFACE

- Rich intuitive dashboard
- Real time monitoring
- Energy auditing
- GEO Location mapping
- Measurement and verification
- Energy & cost saving tracking.
- Regression analysis
- Bill creation and Verification
- KPI analysis and portfolio benchmarking

ORDER CODE



For Example-
TKN205-F-TC1-MBT insertion Type Ultrasonic flowmeter, Sensor Standard insertion Type,Modbus TCP.

Principle & Parameters	
Principle	Transit-time
Accuracy	Flow meter: ±0.5%; Heat meter: ±2.0%.
Output	4~20mA analog
	OCT pulse
	Relay
Input	3 way 4~20mA analog input, acquisition signal of press and liquid level.
	Achieve heat measurement by connecting PT100 temperature sensors
Interface	RS485; MODBUS
Pipe Material	Steel, stainless steel, cast iron, copper, PVC, aluminum, etc.
Caliber	DN50mm~DN6000mm
Straight Pipeline	Upstream: 10D; Downstream: 5D; From the pump: 30D (D means outer diameter)
Medium	Single liquid that can conduct sound wave, such as water(-30℃~160℃).
Velocity	-12m/s~12m/s
Special Cable	Shielded twisted-pair cable, length≤50m.
Temperature	Main unit: -20℃~70℃; Transducers: -30℃~160℃
Protection Class	Main Unit: IP67; Sensors: IP68
Power Supply	DC24V ; AC85~264V; 50Hz
Consumption	1.5W

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