

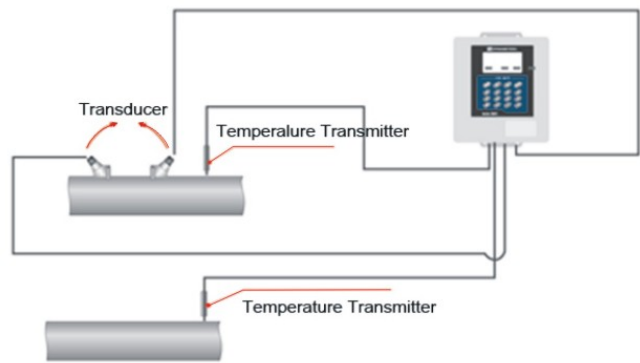
Series DMHF Heat Flow Meter

The **DMHF Series** adopt the MultiPulse™ Technology, Digital Signal Processing Technology and Error Correction Technology, which are the state-of-the-art non-invasive flow measurement technology, with a measuring system of very high accuracy, versatility, low cost of installation and ownership. The meter can calculate automatically caloric content of water under various temperatures, and can obtain instantaneous caloric value and totalized caloric value.

The Non-invasive clamp-on series and the Insertion series are available.

Users can select fixed types or Portable types.

The pipe range should be DN25-2500 (For Insertion series, the allowed pipe range is DN65-2500).



Features:

1. Non-invasive clamp-on series transducer and Insertion Series transducer are available.
2. Internally configured batch controller makes batch control convenient and accurate.
3. No moving parts, no pressure drop, no need of maintenance.
4. Easy and economical installation, hot-tapped installation.
5. Daily, monthly and yearly totalized flow: totalized flow for the last 64 days and months as well as for the last 5 years can be reviewed.
6. Optional SD card Data logger output, can memory total Heat Flow, Heat flow rate, etc.

Applications:

- ◆ Measuring heat flow
- ◆ Sewage and drainage water with small particle quantity.
- ◆ Oil, including crude oil, lubricating oil, diesel oil, fuel oil, etc.
- ◆ Beverage and food processors
- ◆ HVAC hot and cool water, water /glycol solutions.
- ◆ Water and waste treatment
- ◆ Power plants, heat energy boiler feed water.
- ◆ Energy consumption supervision and water conservation management
- ◆ Metallurgy and miming applications (e.g., acid recovery)
- ◆ Marine operation and maintenance
- ◆ Pulp and paper industries
- ◆ Pipeline leak detection, inspection, tracking and collection
- ◆ Energy measurement and balancing

Parts Identification:

1. Transmitters:



Fixed type



Explosion-proof type



portable type

2. Transducers:



Clamp-on type



Insertion type



Flanged type

3. Temperature Transmitter:



Pt100 (or Pt1000)



Specifications

Transmitter	Power Supply	Standard: 115/230VAC 50/60Hz ±15%, 5VA max. Optional: 10 - 28 VDC, 2.5VA max.
	Velocity	0 ~ ±40 ft/s (0 ~ ±12m/s), bi-directional
	Display	4 line×16 English letters LCD back lit, can display total flow, flow rate, velocity and meter running status etc.
	Units Rate Totalized	User Configured (English and Metric); Rate and Velocity Display; (FWD, NET, REV or BATCH) gallons, ft³, barrels, lbs, liters, m³,kg
	Output	4~20mA, Pulse, Relay, RS232C or RS485 Optional: up to 8 GB Data logger, Hart +(4~20mA), Modbus
	Accuracy	±1.0% of reading at rates >0.5 m/s)
		±2.0% of reading at rates <0.5 m/s)
	Sensitivity	Flow Rate: 0.001ft/s (0.0003m/s)
	Repeatability	0.2% of reading
	Security	Keypad lockout, access code enable
Transducer	Liquid Types Supported	Virtually most any liquid containing less than 2% total suspended solids (TSS) or aeration
	Suited Liquid Temperature	Std. Temp. Transducer: -40°C~121°C High Temp. Transducer: -40°C~250°C
	Cable Length	Std: 20 feet (6m); Opt: Maximum: 990 feet (300m)
	Pipe Size	L transducer: DN1000 - 4500 M transducer: DN40 -1000 S transducer: DN15 - 50 Insertion transducer: DN65 – 2500 Flanged transducer: DN65 – 2500
	Transducer Size	S: Size: 42×25×25; weight: < 0.2kg M: Size: 60×43×43; weight: < 0.2kg L: Size: 80×53×53; weight: < 0.2kg

Model selection for DMHF Ultrasonic Heat Meter

Model DMHF -X X X X -X X /* (Transducers)

Heat flow series

- B—Fixed transmitter
- P—Portable transmitter

Power supply

- A—110VAC
- B—220VAC
- E—24VDC
- S—Solar supply (including solar board)

Output Selection

- N—N/A
- 1—4-20mA
- 2—Pulse Output (Flow rate or totalizer output)
- 3—Electrical Relay
- 4—RS232 **Note: RS232 and RS 485 cannot be used at the same time. RS232 is Standard. Also Data logger is via RS232 port too.**
- 5—RS485
- 6—Hart +(4-20mA)
- 7—ModBus
- 8—Data logger
- 9—GPRS Wireless Module (With exclusive software.)

Pipeline range

XXXX—DNXXXX, (The range according to the transducer type)

Cable length

XXX--006—6m, 300—300m (Note: Std. cable is 6m. Maximum can reach to 300m.)

Temperature Input Type (Please contact with the factory if use thermal resistance directly.)

- C1—Pt100 (-40~150°C) Two-Wire System Temperature transmitter input
- C2—Pt1000 (-40~150°C) Two-Wire System Temperature transmitter input

Transducer Type

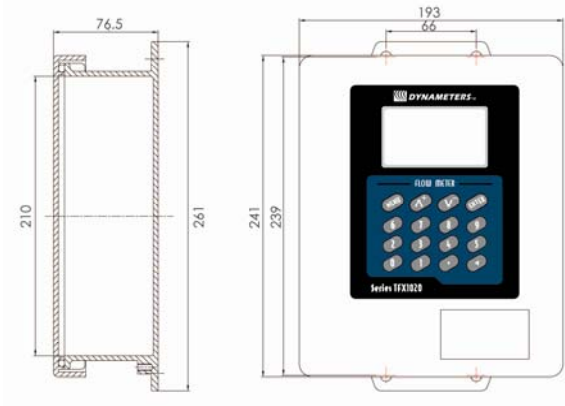
Refer to DB (Clamp-on), DC (Insertion), DF (Flanged) transducer type selections

Parts Number Construction example:

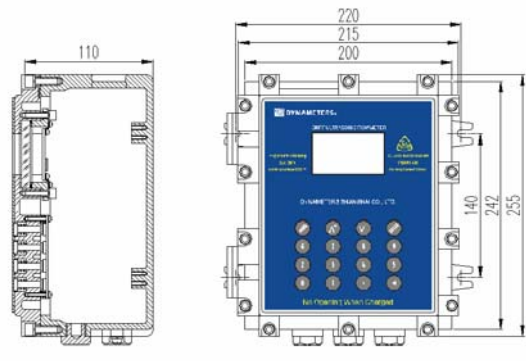
DMHF-BB1NN-0400-015-C1/ DB-MNN-0400-030

Description: DMHF Ultrasonic Heat meter, Clamp-on type transducer, 220VAC power supply, 4-20mA output, Non-multiple output selections, temperature input in pipeline DN400; its cable length 15m; Temperature Input Type Pt100; Standard M type transducer, standard temperature, no mounting frame, common mounting type, used in pipeline DN400, transducer cable length 30m.

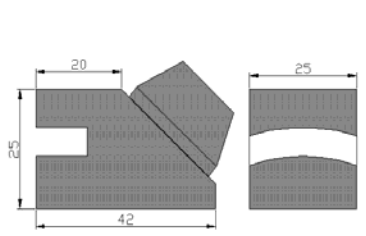
Parts & Dimensions



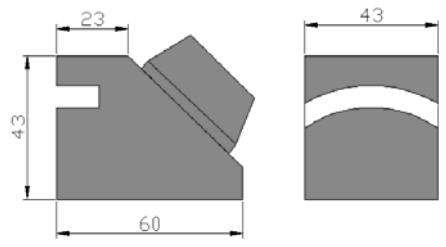
Standard Transmitter



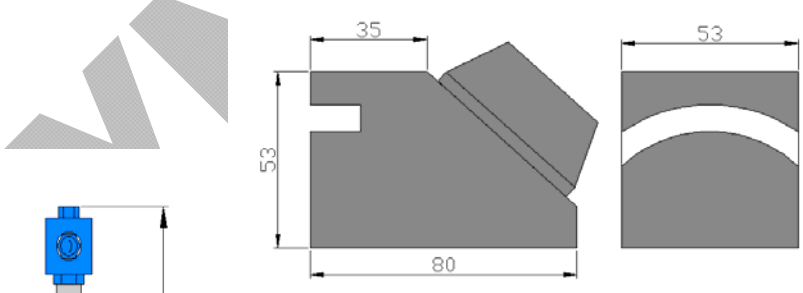
Explosion-proof Transmitter



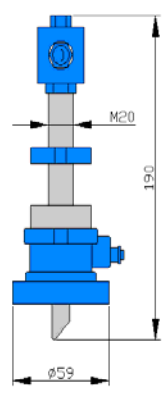
S Clamp-on Transducer



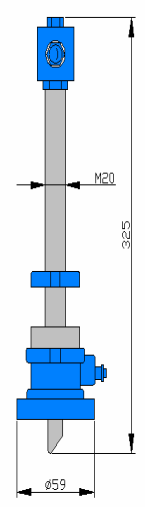
Std. M Clamp-on Transducer



L Clamp-on Transducer



Std. Insertion Transducer

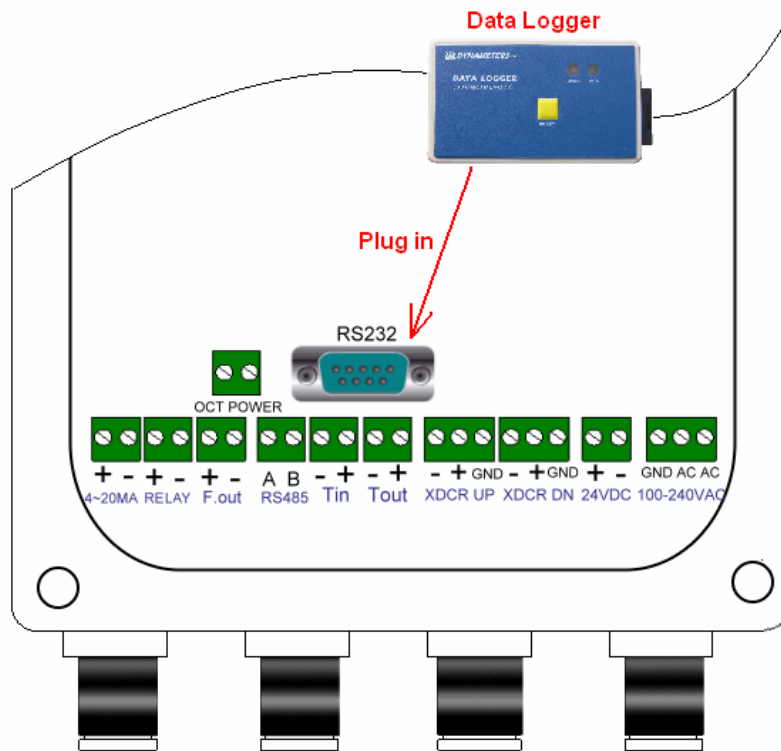


Extended Insertion Transducer

Wiring Terminals

Conduit holes: NPT1/2 and NPT3/4 can be selected.

Housing: NEMA 4 * [IP65] ,aluminum alloy casting.



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