

# HYDRUS Ultrasonic Cold Water Meter

Static ultrasonic water meter for accurate measuring and recording for all cold water applications.

## FEATURES

- Open metering telegram
- Long-term stability under difficult conditions
- Leak detection
- Higher performance than class 2 requirements
- No calming sections required
- No measurement of air
- Design minimises sedimentation
- Mounting in any installation position
- Battery lifetime up to 16 years
- IP 68 permanent immersion
- Suitable for outdoor installation
- Displaying of error and alarm codes
- No over-run performance
- No magnetic influence
- Data logger for consumption values

## Product Codes

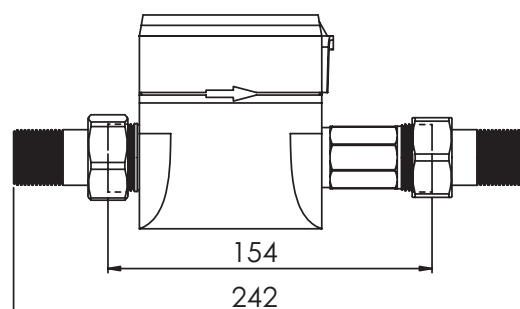
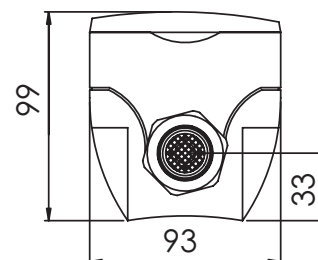
|                  |                                                               |
|------------------|---------------------------------------------------------------|
| <b>EHM5020VR</b> | DN20 with Nut & Tail thread, dual check valve and radio       |
| <b>EHM5020VL</b> | DN20 with Nut & Tail thread, dual check valve and radio/L-Bus |
| <b>EHM5020VM</b> | DN20 with Nut & Tail thread, dual check valve and M-Bus       |

## EHM5020



## General Data

|                               |                                             |
|-------------------------------|---------------------------------------------|
| Medium temperature range      | 1 - 50°C                                    |
| Temperature safety            | 1 - 90°C                                    |
| Ambient operating temperature | 1 - 70°C                                    |
| Ambient storage temperature   | -20 - +50°C                                 |
| Nominal pressure              | 1600 kPa                                    |
| Power supply                  | Two 3.6 VDC lithium batteries               |
| Battery lifetime              | Up to 16 years                              |
| Interfaces                    | Optical, radio 434 MHz, M-Bus, L-Bus, pulse |
| Data storage                  | For events and for consumption values       |
| Approval                      | NMI R49, AS3565.1, AS3565.3                 |
| Strainer                      | Included                                    |
| Check Valve                   | 1 or 2 Included                             |
| Couplings                     | 2 included                                  |
| Protection class              | IP 68                                       |
| Accuracy class                | 2                                           |



\* Refer to Technical Data over page

Version: Aug 18

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## EHM5020

### Technical Data Display

|                    |                                                                                                                          |      |    |   |    |    |    |   |
|--------------------|--------------------------------------------------------------------------------------------------------------------------|------|----|---|----|----|----|---|
| Display indication | LCD, 8-digit                                                                                                             |      |    |   |    |    |    |   |
| Unit               | kL/hr                                                                                                                    | L/hr | kL | L | °C | °F | hr | d |
| Values displayed   | Current total volume, Current flow rate, Remaining battery life (date), Error and alarms, Software version, Display test |      |    |   |    |    |    |   |

### Interfaces

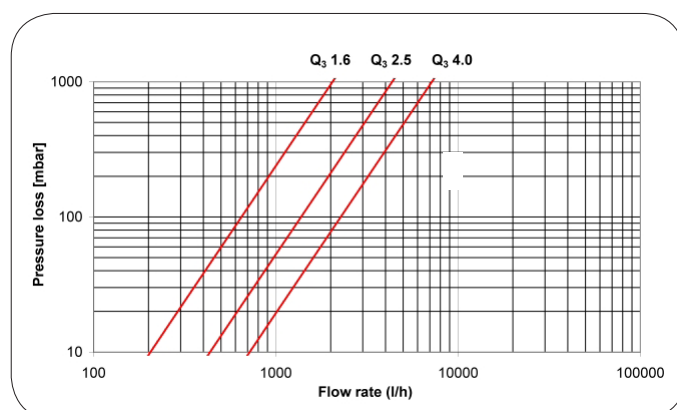
|                    |                                                                                                                                              |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| Optical (standard) | For configuration of display and radio telegram, for testing optical test pulses, to switch to the various displays (standard on all meters) |
| Radio (stocked)    | 434 MHz, real data telegram (configurable), Open Metering Standard                                                                           |
| M-Bus              | Automatic baud rate detection, configurable telegram, cable length 1.5 m                                                                     |
| L-Bus/Pulse        | In combination with radio, Pulse configuration 10L per pulse<br>Cable length 1.5 m                                                           |



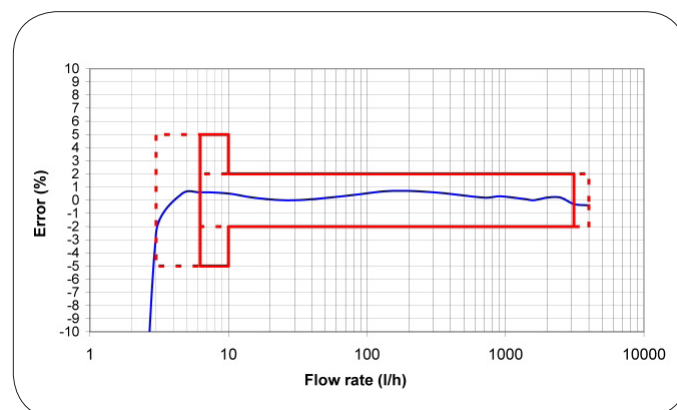
### Technical Data

| SIZE |      | FLOW RATES (l/hour) |      |      |      | END CONNECTION |
|------|------|---------------------|------|------|------|----------------|
| DN   | Q3   | Q3/Q1               | Q1   | Q2   | Q4   | Coupling       |
| 20   | 4000 | 200                 | 20   | 32   | 5000 | 3/4" BSP Male  |
|      |      | 250                 | 16   | 25.6 |      |                |
|      |      | 315                 | 12.7 | 20.3 |      |                |
|      |      | 400                 | 10   | 16   |      |                |

### Pressure Loss Graph



### Typical Error Graph



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