

# ASIONIC 200 CFB

BATTERY POWERED CLAMP ON TYPE ULTRASONIC FLOW METER

## Features

- Ultrasonic Measurement using Transit Time Technology
- Easy installation, No need to cut pipe or stop flow
- External transducers do not require periodic cleaning
- No pressure drop or energy loss
- Bi-directional flow operation
- Suitable for wide range of pipe diameters
- Portable / fixed Installation options
- Small in size and weight
- Inbuilt data logging



## Description

ASIONIC<sup>®</sup>200 CF-B Battery Powered Clamp-On Ultrasonic flow meters measure liquids in industrial applications. Because the sensor is clamped on to the outside of the pipe, it is immune to the process compatibility concerns of an in-line flow metering technology. The battery powered clamp-on ultrasonic flow meter operates using transit time measurement. By measuring the time it takes for ultrasonic signal to travel a known distance with the flow stream and another signal travelling against the flow stream, it determines the velocity of the fluid being measured. With the sonic properties of the fluid and the pipe material factored in, users get an extremely repeatable accuracy on the volumetric flow rate being measured. The product is ideal for users looking for a process measurement device that is easy to install and can maintain flow measurement for clean liquids. ASIONIC<sup>®</sup>200 CF-B Battery Powered Clamp-On Ultrasonic flow meters can be installed without stopping the process or having cut into the pipe line. It is ideal for process measurement in applications where users previously had not installed an in-line flow meter and for applications where large line sizes or exotic materials are required for in-line measurement technologies.

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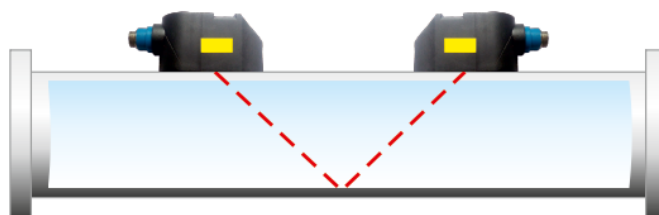
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## Technical Specifications

| Performance Characteristics        |                                                                               |
|------------------------------------|-------------------------------------------------------------------------------|
| Media                              | Sonically Conductive Liquids                                                  |
| Sensing Method                     | Differential Transit Type in direct or reflect mode                           |
| Media                              | Sonically Conductive Liquids                                                  |
| Viscosity                          | 200 cp maximum                                                                |
| Turbidity                          | Smaller than 10,000ppm (mg/ltr) with a low level of air bubble content        |
| Flow Velocity Range                | -12 m/s to +12 m/s (40 ft/s)                                                  |
| Power Supply                       | Battery Powered 3.6V Rechargeable                                             |
| Accuracy*                          | < $\pm 2\%$ of F. S. $\pm 5$ mm/sec for Velocity Range 0.3 m/s to 6 or 12 m/s |
| Line Size                          | 50NB to 100NB, 125NB to 300NB                                                 |
| Acoustic Paths                     | Single Path                                                                   |
| Display                            | LCD Display                                                                   |
| Communication Interface            | RS485 (MODBUS RTU), Pulse (Open Collector), GSM & GPRS                        |
| Data Logger                        | Internal Data Logging                                                         |
| Ambient Conditions                 | Temperature -20°C to 75°C / Humidity 5 to 95% Non Condensing                  |
| Operating Temperature - Transducer | -40°C to 80°C (Standard), -40°C to 150°C (Optional)                           |
| Operating Temperature              | -10 °C to +60 °C (14 °F to 140 °F)                                            |
| Pipe Size                          | 50 NB (2") to 300 NB (12") , Wall thickness <10mm                             |
| Pipe Material Compatibility        | MS / SS / Cast Iron / Plastic                                                 |
| Humidity                           | Up to 99% Relative Humidity (Non Condensing)                                  |
| Transmitter Mounting               | Pipe Mounted / Wall Mounted                                                   |
| Electronic Protection Class        | Field Mount Weather Proof IP-67                                               |
| Sensor Cable                       | Encapsulated Design Standard Cable Length : 5 mtr.                            |
| Sensor Mounting Methods            | 'V' method                                                                    |

## Sensor Mounting Methods



V - Mount

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## Ordering Information for Flow Transmitter

Sample Order Code : ASIONIC 200CFB-TX-A1-B1-C1-D1-E1-F1

| Parameter |                       | Code | Description        | Parameter |                             | Code | Description            |
|-----------|-----------------------|------|--------------------|-----------|-----------------------------|------|------------------------|
| A         | Enclosure MOC         | A1   | Aluminium Die Cast | D         | Electrical Output 2 (Pulse) | D1   | Pulse (Open Collector) |
|           |                       | A2   | SS-316             |           |                             | DX   | NA                     |
|           |                       | AY   | Other              |           |                             |      |                        |
| B         | Enclosure IP Rating   | B1   | IP 54              | E         | Communication Output 1      | E1   | RS485 (MODBUS RTU)     |
|           |                       | B2   | IP 67              |           |                             | EX   | NA                     |
| C         | Electrical Connection | C1   | M20                | F         | Communication Output 2      | F1   | GPRS                   |
|           |                       | C2   | 1/2 Inch NPT       |           |                             | F2   | GSM                    |
|           |                       | CY   | Other              |           |                             | F3   | Dual SIM GPRS          |
|           |                       |      |                    |           |                             | F4   | MBUS                   |
|           |                       |      |                    |           |                             | FX   | NA                     |
|           |                       |      |                    |           |                             |      |                        |

## Ordering Information for Sensor

Sample Order Code : ASIONIC 200CFB-SR1

| Parameter                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                 | Code | Description          |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|------|----------------------|
| SR                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Sensor Assembly | SR1  | Small 50 to 100 NB   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                 | SR2  | Medium 125 to 300 NB |
| Note : <ul style="list-style-type: none"><li>▪ Due to our continuous product revisions, design specification &amp; model numbers are subject to change without notice.</li><li>▪ To be used for industrial applications.</li><li>▪ Accuracy defined at Lab Conditions.</li><li>▪ For other requirement please consult factory.</li><li>▪ This product is meant for laboratory/Process application only and not for custody transfer application.</li></ul> |                 |      |                      |

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