



## The optimal solution for precise, linear volume and temperature measurement



Illustration represents the original size

- simultaneous measurement of flow and temperature
- no intrusive sensor elements, no pressure drop
- accurate low flow measurement
- ability to handle aggressive media
- Solid state design with no moving parts
- Ability to measure almost any media that can be fed through a pipe



### The programmable flow-captor 4460.38 effective even at very low flow rates

The flow-captor 4460.38 is an inline flow meter with the added feature of temperature measurement.

The latest developments in weber's calorimetric and microprocessor technologies enable precise measurements of flow volume.

Because it is particularly effective at very low flow rates, the programmable

flow-captor is the ideal meter for dosing measurements in water treatment, pharmaceuticals, irrigation, pulp and paper, and a wide variety of other applications.

The programmable flow-captor is designed for applications requiring small pipe diameters, where accurate flow metering, traditionally, was difficult to

obtain. It is the first inline flow sensor on the market offering unparalleled new technology and reliability, you can count on.

This new flow captor is just the latest generation of "captor" products from weber Sensors, known world wide, for over 40 years, as the leader in sensing technology for industry.

## Operation

The innovative flow captor is easy to install, has no wear and tear, no moving parts and a nearly unlimited life span.

It operates on weber's innovative *calorimetric principle* and measures flow of water based media up to 4 gal/min (other media at higher volumes) and temperatures between -20 C and +80C, (-5F and +175F)

## Most accurate measurement of flow and temperature

The innovative sensor and microprocessor technique, developed by weber, makes it possible to measure volumes not achievable with other devices available on the market.

This new flow captor has the feature of customer programmable flow and temperature range. The measuring unit is programmable as well.

No matter what technology a sensor utilizes, the flow meter should be calibrated to the medium being measured. The flow captor 4460.38 provides the capability to calibrate to the medium. *Another weber innovation.*

## Applications

All applications where flow and temperature in small pipes have to be measured. Examples are: Pharmaceutical industry, water treatment, dosing, compound blending, agriculture, pulp and paper, and other process industries.

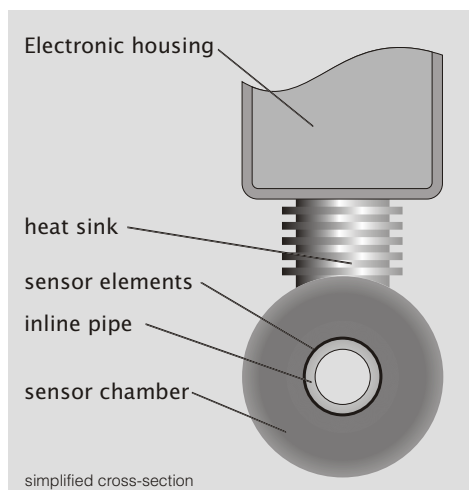
This inline flow captor provides analog re-transmission of flow volume and temperature for interfacing with recorders, computers, or PLC's. It also has adjustable set points for flow and temperature, and can also operate as a three-point controller.

- 1 program mode
- 2 display of measured value and set points
- 3 display of selected engineering units
- 4 set point for low flow
- 5 set point for high flow
- 6 set point for high temperature
- 7 toggle switch for flow or temp display
- 8 programming / set push button
- 9 parameter select push button
- 10 sensor chamber
- 11 inline pipe

## Integral sensor element

In this innovative technology, the pipe itself becomes the sensor element, avoiding restrictions of flow and pressure drops. A special heat sink between the sensor pipe and the electronics package allows the 4460.38 to be used at higher medium temperatures than most other sensors.

The programmable flow captor handles all varieties of media, even aggressive and pastuous ones.



simplified cross-section



## Outstanding features

- precise, flow volume and temperature measurement, even at very low rates
- easy, user friendly, programming
- ability to calibrate to variety of mediums
- display of flow rate and set point
- analog re-transmission (4-20 mA) for flow and temperature
- measurement of all variety of media (including aggressive)
- compact, rugged industrial design
- signal conditioning by innovative microprocessor technology
- economical alternative to other sensor technologies

**To get more information about the new programmable flow-captor please ask for technical data sheet #4460.38.**

## The captor group



For over 40 years weber Sensors has been a leader in sensor innovation worldwide. From these activities the captor group evolved, providing engineered solutions for industrial automation and factory floor communication throughout the world.

The captor group is a unification of companies from a variety of industries and technologies addressing the marketplace under the captor umbrella. The members of the captor group are sharing resources and Know How and - most important - share and benefit from the market recognition of the trade mark "captor",

that stands for products and services you can rely on. Members of the captor group are world-wide. For more information, please write to [info@captor.com](mailto:info@captor.com).

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