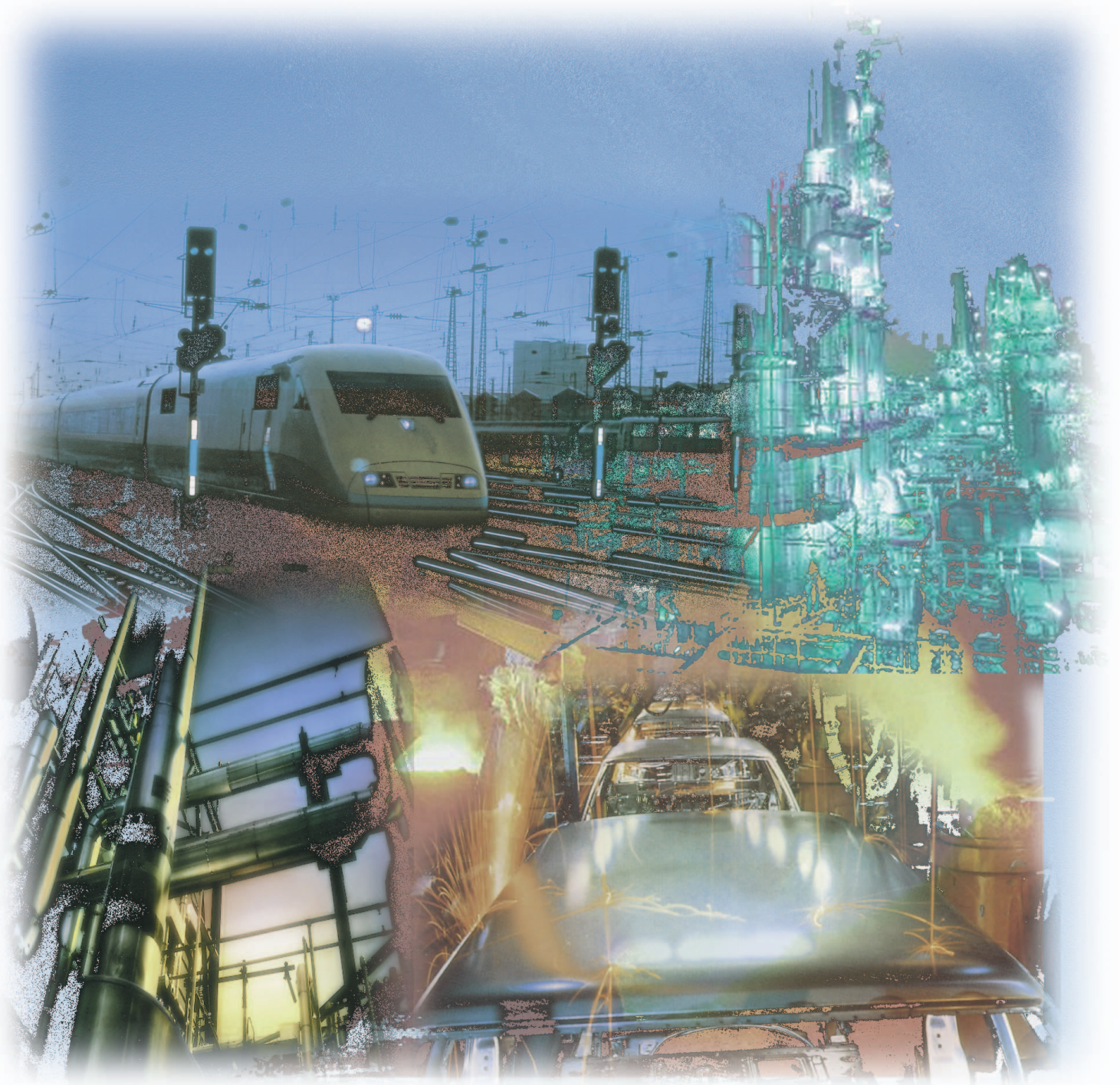


Sensor Competence - an Overview



monitoring - controlling - regulating - measuring

CooLGuard

The safe sensing solution for industrial cooling systems

All-In-One monitoring of flow and temperature of the coolant



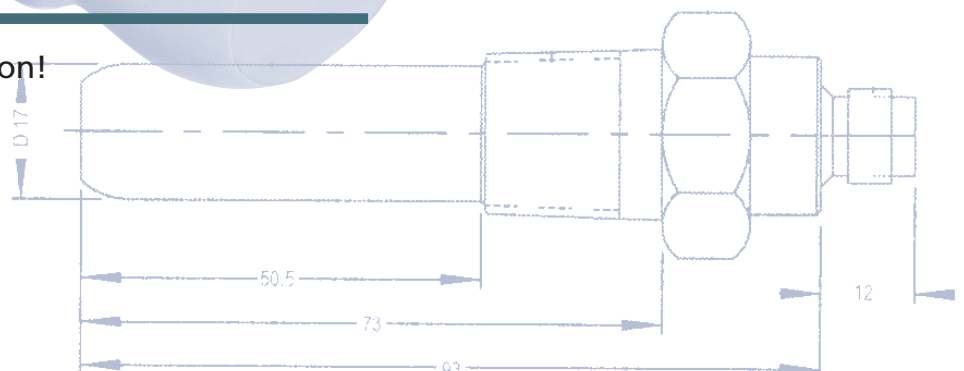
- Flow and temperature monitoring
- Solid state electronic sensing
- No moving parts
- Preset with no adjustments needed
- Compact and rugged industrial design
- Maintenance-free
- Reliability at an economical price



CooLGuard Typ 4100

CooLGuard Typ 4100 EXT

Also available as extended version!



FlowGUARD

The next generation flow switch from captor

No matter what your medium is the FlowGUARD can be automatically recalibrated to suit your requirement e.g. for your actual flow rate. The unit comes with a safe alarm set point at 50% of your flow rate.

- »Teach-In« fully automated range and set point configuration
- Self calibrating enables use in most applications
- Actual analog flow display
- Readjustable set point
- High flow indication
- Calorimetric principle, no moving parts
- Simple installation and easy handling



flow-captor P-R-O 50



flow-captor I-R-O 50



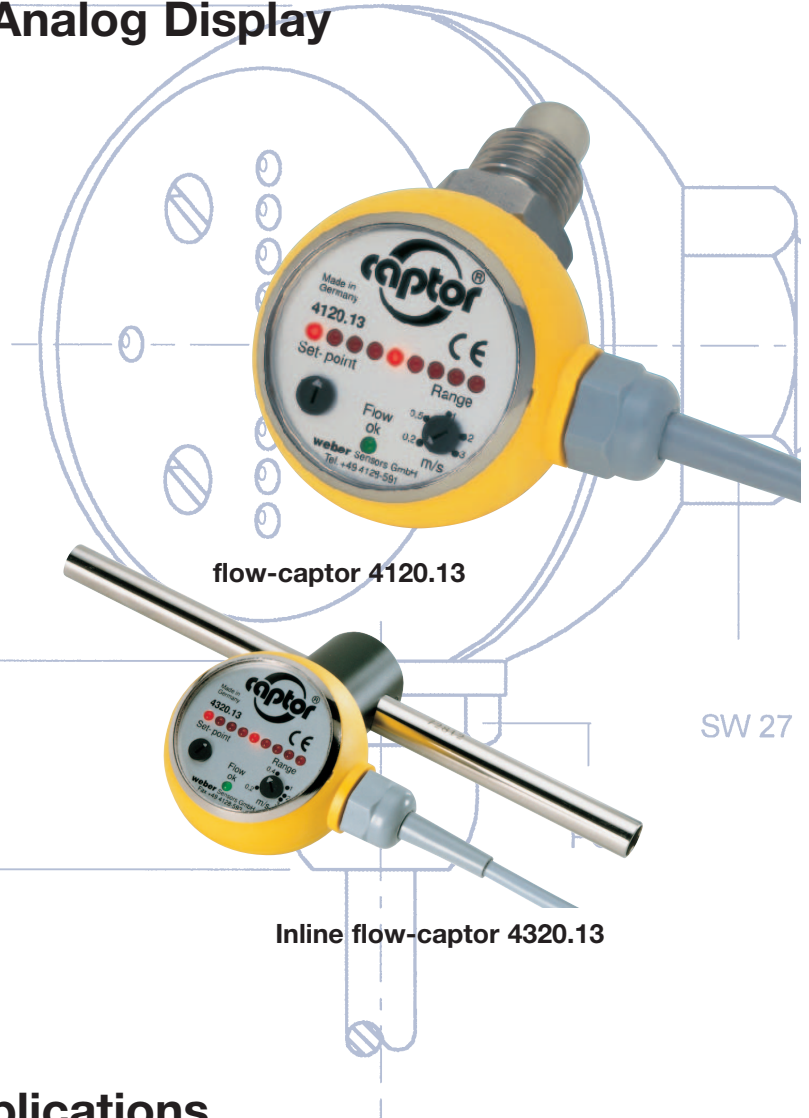
Also available as inline version without pressure loss within the cross section. Inline tubings are obtainable in several different sizes.

flow-captor

Metering Flow Switch with Analog Display

The flow-captor is a compact, rugged and reliable flow sensor with proven reliability and long-term stability. Operating according to a calorimetric principle the flow-captor offers a level of performance, especially at low flow rates, not comparable with instruments employing different operating principles. The flow-captor is available in a range of many different models.

- For liquid media
- Insertion and inline version
- Separate adjustment of range and set point
- Analog display of flow rate and set point
- High accuracy even under low flow conditions
- Usable for high temperatures
- High pressure resistance
- Inline version for small diameters



flow-captor for Sanitary Applications



for the VARIENT®-system



for the TRI-CLAMP® - system

flow-captor

Stainless Steel Version

Optionally available with temperature output, either switching or analog

- For liquid media - also aggressives
- Rugged industrial design in stainless steel
- High class protection IP 67
- Standard industrial connector M12x1
- Suitable for AC and DC electric power supply
- Available also as an inline version with different pipe sizes



flow-captor 4120.13 M



Inline flow-captor 4320.13 M

flow-captor

Flow Meter - Insertion Type

- For liquid media - also aggressives
- Rugged industrial stainless steel sensor
- Large measuring range - fully adjustable
- Analog output 4-20 mA
- High accuracy even at low flow rates



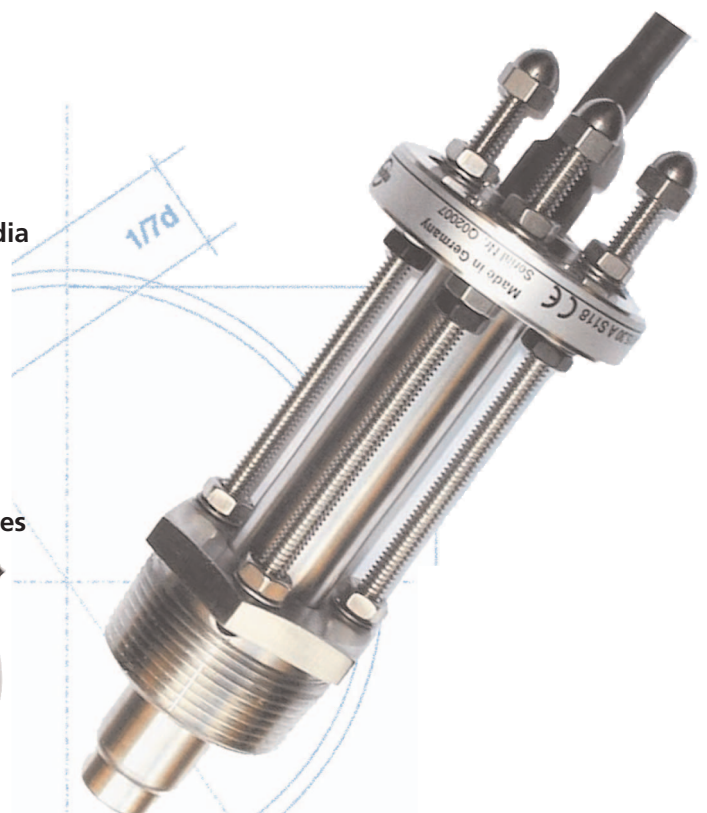
flow-captor 4115.30

get to the point...with the *smart meter*

...utilizing the 1/7 law

- Accurate flow metering even at very low flow rates
- Easy insertion depth adjustment for pipes from 1.5" to 24" diameter
- Solid State design. Maintenance-free as there are no moving parts to stick or wear out
- Ideal for handling aggressive and hard to measure media
- Analog Output (4-20 mA)
- Compact, rugged industrial design
- Minimal inventory requirements due to universal mounting design
- Cost effective alternative to other metering technologies

the adjustable mass flow meter for pipes up to 24" (600 mm)



flow-captor

Flow Meter Inline

Optionally available with temperature output, either switching or analog



Inline flow-captor 4311.30

- For liquid media - also aggressives
- Rugged industrial stainless steel sensor
- Sensor tube without reduction of the cross section
- Available in different pipe sizes
- Large measuring range - fully adjustable
- High accuracy even at low flow rates

micro flow-captor

The *micro* flow-captor is an inline flow meter for very small flow rates, with < 0,1 ml/min resolution.

With the new generation *micro* flow-captor, **weber** has utilized the accepted benefits of the calorimetric principle for micro flow metering.



- Very small sensor pipes 4x1 (ID2), 6x1 (ID4)
- No reduction of cross section, no pressure drop
- For liquid media
- Detection of smallest flow quantities
- Solid state design with no moving parts

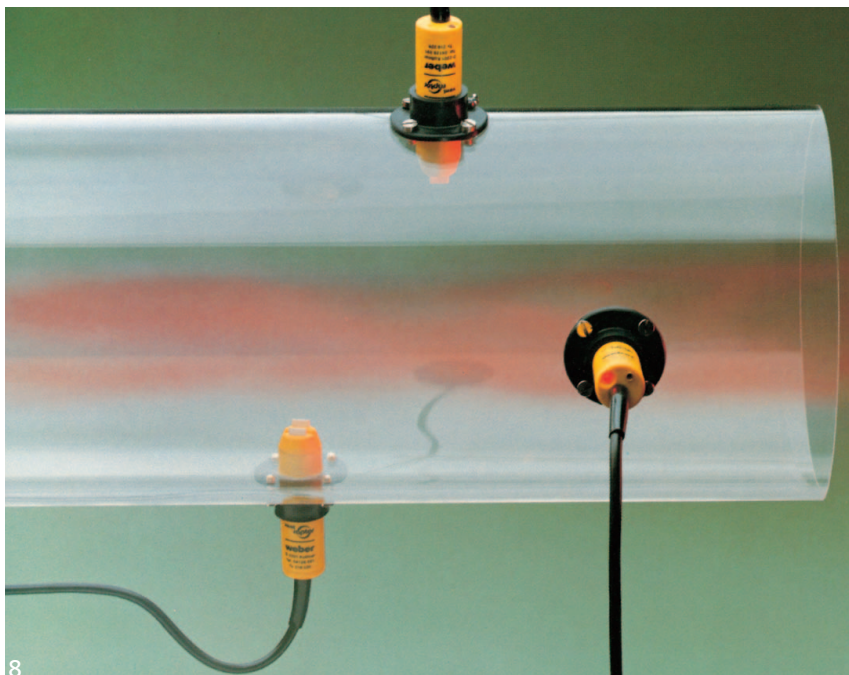


vent-captor

Flow Monitor - Flow Meter



- For air and gaseous media
- Rugged industrial version
- For high pressure available in stainless steel housing
- For high temperature as a remote system
- Large measuring range up to 30 m/s
- Insertion and inline version
- Suitable for low flow rates
- High accuracy and repeatability



The vent-captor is a flow monitor / meter for all applications where air as an industrial medium has to be monitored or measured. This compact, electronic unit operates on a calorimetric principle with no mechanical moving parts. It converts the air flow conditions into electrical signals.



vent-captor 3202.30

vent-captor monitors and meters can be installed simply into any air flow and perform reliably even under the harshest application conditions.



vent-captor 3202.03/ Metal PG 21

vent-captor

Sensors for sealed mounting and for pressurized air flow metering

The vent-captor is a mass flow-meter. It measures the norm volume flow, corrections for pressure fluctuations are unnecessary.

Insertion types

vent-captor 3205.30

vent-captor 3205.30 S102

- Stainless steel housing
- Operating pressure up to 10 bar
- Insertion type for a wide range of pipe diameters
- Special units for higher medium temperature

Inline types

Inline vent-captor. Sensors for small mass flow ranges of 2 l / min (resolution 0,1 l / min) to 600 l / min.

vent-captor 3302.30

- Stainless steel sensor pipe
- Operating pressure up to 10 bar respectively 16 bar
- Standard sensor pipes: 8x1, 12x1, 18x1,5, 22x1,5, 28x1,5
- partially no influence on diameter

Available with separate process input meters

mini vent-captor

mini vent-captor as switch or meter

Ideal for small pipe diameters from ID 13 to ID 25

- For air and other gaseous media
- Mini sensor head
- Analog output (4-20 mA) / optional switching output with 2 set points
- Pressure resistance 16bar



Electronics 3002 S 127



Sensorhead 3205 S 127

Process input meters

The process meters convert the analog output signal of flow- and vent-captor units into a digital value.



Process Digital Display CUB 4 CL20

- The displayed value (l/m, m³/h) can be chosen by nullification and range scaling
- Display scaleable up to 1999
- Decimal point adjustable
- Range overstepping will be indicated



Process Digital Display PAXP

- Display of current value and total sum is switchable
- Display setting: MIN/MAX/TOT/IST
- 20 measurements per second, 16 bit solution
- 16 step linearisation
- Programmable by push buttons at the unit itself or by PC

foto-captor

Infrared Switching System (HMD)



The foto-captor is a hot metal detector (HMD) which, for decades, has been operating successfully worldwide in the steel industry.

- For hot areas of the steel industry
- Various application possibilities
- Temperature response from 270°C to 800°C
- Rugged industrial version
- Compact and remote systems
- Programmable Systems

IR-Light Barrier System

- For cold areas

laser-captor

High Performance Laser Light Barrier System

- Powerful pulsed laser system
- Rugged design for operating in harsh environments
- Reliable, maintenance-free
- Highest protection standard, laser class 1



proxi-captor

Inductive Proximity Switch and Meter



- For large switching distances up to 250 mm
- Self-adjusting or adjustable
- Rugged, fully encapsulated electronics
- Stainless steel housing
- For high ambient temperature
 - up to 200°C
 - cooled coils up to 1000°C
- Compact and remote systems
- Customized versions

captor worldwide

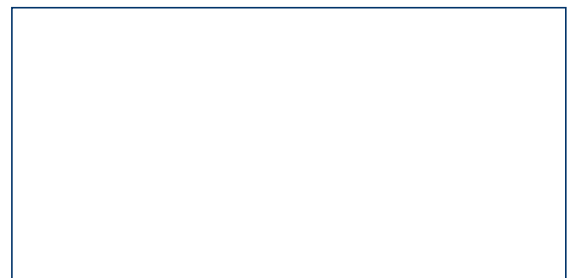


The captor group

For over 50 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 worldwide. For more information, please write to **info@captor.de**



Certified in accordance with I.S. EN ISO 9001:2000