

flow-captor P-R-O 50



- Automatic scaling and set-point
- No moving parts
- Learn function for flow rate
- Push-button re-scaling if needed
- Easy to install

*The new **captor** P-R-O 50 is for applications requiring RELATIVE measurement and set-point of flow rate. This means that the actual velocity of the flow or the quantitative measurement in GPM is not known and is not important. What is important is that the set-point can be set as a "percentage of" or "relative to" the full flow rate. No other flow sensor could do it this simply or effectively.*

Operation

Simply install the **captor** into a 1/2 NPT female fitting or T fitting.

Apply power and turn on your flow. Press the "set" button until all 7 LED's flash. The **flow-captor** automatically stores this flow rate and causes all 7 of the range LED's to remain lit, indicating 100% of full flow rate. The **captor** then automatically sets the set-point (shown by the appropriate LED "flashing") at 50% of the full flow rate. The flow OK light will also be lit showing that the established full flow rate is what is flowing in the pipe. It is just that simple, your "relative" monitoring **captor** is now ensuring that whatever your normal flow rate is, if it reduces by 50% you will get an alarm from the **captor**.

What if the full flow rate goes higher instead of lower?

With mechanical switches, a higher than expected flow rate can cause damage to the sensor. But not so with the **captor**. If flow increases from the initially established rate, the "Overflow" LED will light. The operator may now choose to ignore it as too much flow is not a problem, or the operator may wish to choose this new flow rate to be the "normal" full flow rate. If so, all that is necessary is to depress the "set" button until all LED's flash. The **flow captor** has now recalibrated itself to this new flow rate as 100% of flow. The "flow ok" LED will again light and the set-point will automatically be re-set at the 50% of flow point.

What if I want to set the set-point at a different % of full scale?

This is simply done by quickly depressing the "Set" button at short intervals to step the set-point from the first LED through the 7th LED. You can stop when the set-point is at your desired % of full scale.



Technical data

Type	flow-captor P-R-O 50 Insertion Probe type with Relative Measurement)
Medium	Liquid Media

Sensor Data

Low Flow Set Point	Auto set @ 50% / Adjustable via "set" pushbutton
Hi Temp Set Point	N/A
Medium temperature	-20 to +80 C
Response time	25 seconds (typical)
Repeatability	1%
Hysteresis	10% of set-point value typical
Range	0-150cm/sec
Pressure	30 BAR (450 PSI)

Mechanical Data

Protection class	IP 67 (NEMA 6)
Material	Sensor Head: Stainless Steel 303
Thread	1/2 NPT Thread
Connection	M12 male socket 4pin + 2m cable with M12 connector and pigtail

Electrical Data

Operating voltage	20-30 VDC (short circuit protected)
Switching current	<200mA
Power Consumption	6 W max
Initial Operation	After 15 seconds
Electrical Output	PNP N.O. (switch closed with flow) N.C. (switch open with flow)

