weber

flow-captor

CASCADIA INSTRUMENTATION INC.

captor®

Feature Highlights

There is **NO OTHER PRODUCT** on the market that has the features and versatility of the flow-captor 4120.
The name "**metering flow switch**" is an intended contradiction in terms.
In the market place, as you know, one buys a flow switch which gives no indication of flow rate.
Our 4120 does both and more....

flow-captor Type 412-.1- & 432-.1-

The Metering Flow Switch

- **Flow Rate:**
  9 LED's provide a clear indication of the actual flow rate and the flashing LED's show where the trip point is set.

- **Range adjustment / measurement:**
  A potentiometer is provided for adjusting the full-scale sensitivity or "range" of the 4120. This allows the customer to "tune" the flow-captor to their specific flow rate. Once the customer has installed the 4120 and turned on the flow, the range potentiometer is adjusted until all of the LED's are lit. The customer can then read the existing flow rate on the indexed scale. This represents 100% of the customer's flow rate. The indexed range pot also allows calculation of the actual GPM flowing through the pipe.

- **Set point adjustment:**
  In addition to adjusting the range of the 4120 the customer can also adjust the set-point or trip point anywhere between 10% and 90% of the full flow range. The appropriate LED will flash depending on where the set point is set. No other calorimetric flow switch on the market has this feature. Only with the flow-captor, can the trip point be set so accurately.
  The customer has **two ways to set the set point:**

  In most cases the customer doesn't know the actual flow rate in his system, but he knows that he wants an alarm when the flow rate drops below a certain percentage point.

  Relative Set-point *(to set the trip point at a % of full scale)*
  The customer simply adjusts the range pot so that all LEDs are lit, (adjusting the range to 100% of the existing flow rate).

  Next, the customer adjusts the set-point to the desired percentage, that's it.

SALES SUPPORTER

weber
flow-captor

Absolute Set-point *(to set the trip point at a specific rate of flow)*

- **General**
  When the range pot is adjusted to 100%, the customer can read the actual flow rate on the indexed scale and can calculate the % point to select. Then adjust the set-point pot accordingly

- **The simplest way**
  The customer sets the range pot to any range below the actual flow rate (all LED's must be lit), preferably to the nearest whole number, like 3 m/sec, 2 m/sec, 1 m/sec etc. This makes it easier to calculate the related percentage point. For example, if the desired set point is .5 m/second the customer would adjust the range pot to 1 m/sec and adjust the set point to 50%.

- **The most accurate way**
  The customer sets the range pot above the set-point as close as possible and adjusts the set-point pot to 80%.
  Example: the actual flow rate is 3 m/sec (this figure is not important) and the desired trip point is 0.8 m/sec. The customer then sets the range pot to 1 m/sec (just above the .8 m/second rate) and sets the set-point pot to 80%. This provides the most accurate alarm point.

- **The shortest response time**
  The customer sets the range pot at fully clockwise to 3 m/sec and selects the set-point pot adjustment related to that range.
  Example: desired trip point 1m/sec = 1/3 of the range, the set-point pot has to be set at 33% meaning at the 3rd LED.

  There is no other competing flow sensor on the market as versatile and accurate and able to accommodate such a variety of alarm requirements.

Another reason why you should always ***make sure it is a captor***

◆ **Temperature compensation:**
Other thermal type switches often falsely trip due to the inability to compensate for changes of the temperature in medium temperature. The flow-captor 4120 utilizes a unique means of compensation that continually monitors the medium temperature and compensates for any temperature changes, even wide and rapid ones.

In summary, the above key features **WILL sell the 4120 for you**.
If your customer is not using the 4120 now, he is definitely missing numerous features that have been listed above. Don't fail to review them all with the customer.

Remember we are always here for your training, technical and sales support. Our Georgia inventory awaits your orders.

Please call with any questions or interpretation of any of the items discussed above. It is important that you understand and are comfortable with each category.

Distributed By; Cascadia Instrumentation Inc., Surrey BC

weber Sensors Inc
Phone: 778-578-7956 **Sales@Cascadia-Instrumentation.com**
2230 Towne Lake Pkwy., Bldg. 900, Suite 200 • Woodstock, GA 30189

Member of the captor Group
Phone: +1(770) 592-6630 • Fax: -6640 • E-mail: info@captor.com • www.captor.com

Technical data is subject to change 07/2002 - 412-.1-US-Sales Support © Copyright 2002 by captor Management Inc.