

CDI 5200 SRD

SUMMING REMOTE DISPLAY FOR 5200 and 5400 FLOWMETERS Rev. 1.0

- Remote display of flowmeter output
- Three display modes available:
 - rate (scfm)
 - daily usage (mscf)
 - cumulative usage (mscf)
- Display mode selected at setup and meter labeled accordingly
- Adjustable decimal point in summing modes
- Displays in Nm³/min and Nm³/hr available on request.



DESCRIPTION

The CDI 5200-SRD summing remote display provides a convenient way to monitor daily or cumulative air usage by a machine, process, or department. Alternatively, it can be used as a remote display for a meter in a high or inconspicuous location. When installing the display, the user selects the display mode and labels the unit accordingly.

DISPLAY MODES

In the RATE mode, the unit simply repeats the output, in scfm, of the connected CDI 5200 or 5400 flowmeter. Used in this mode, the display provides a convenient way to monitor the flow at a meter that is high above the factory floor.

The DAILY USAGE mode displays the usage in mscf (thousands of standard cubic feet) during the most recent full 24-hour recording period.

In the CUMULATIVE USAGE mode, the display shows the total air usage in mscf. After reaching 9999, it rolls over to 0. It can be used to track monthly air usage and allocate utility costs. The decimal point can be placed to provide better resolution than one mscf, but the display will roll over sooner.

CONTROL OF THE DISPLAY

The display is controlled by a pushbutton that is accessible from outside the enclosure. Pressing the button briefly will cycle the display through its three modes, RATE, DAILY USAGE, and CUMULATIVE USAGE. Ten seconds after the button is last pressed, the display will revert to the selected default mode. To set the starting time for the daily usage display, press and hold the button for two seconds with the meter in the daily usage mode. The daily usage display will indicate " - - " for the first 24 hours. It will subsequently indicate the usage during the last complete 24-hour period. To reset the cumulative display to zero, press and hold the button with the unit in the CUMULATIVE USAGE mode.

WIRING

Connect the display to the associated meter using three-conductor cable. Connect the *supply-*, *supply+* and *display* terminals on the meter to the corresponding terminals on the display. If using the wall-plug dc power supply furnished with the meter, connect it either at the display or at the meter. Alternatively, power the meter and with an 18- to 24-Volt dc supply connected to the *supply-* and *supply+* terminals, either at the meter or at the display. If power is connected at the display, the interconnecting cable must be 22 gauge or larger and must be no longer than 60 feet. The 300 mA power supply furnished with the CDI 5200 and 5400 Flowmeters is adequate for one meter and one remote display.

PROGRAMMING THE DISPLAY

To select the default display mode, press the button while applying power to the display. The display will have a "P" at the left and a digit at the right. A zero indicates RATE mode, a one indicates DAILY USAGE mode, and a two indicates CUMULATIVE USAGE mode. By pressing the button repeatedly, advance to the desired mode. Wait a few seconds; the meter will then display a decimal point. Press the button repeatedly to move the decimal point to the position desired for the DAILY USAGE and CUMULATIVE USAGE modes. Wait a few seconds, and the display will revert to normal operation in the selected mode.

LIMITATIONS

Because of slight delays in the response of the flowmeter, if the flow consists predominantly of pulses shorter than several seconds, the accuracy of the totalized flow will be reduced.

SPECIFICATIONS

Accuracy: Correctly reports meter output.

Input power: 50 mA at 18 to 24 Vdc

Display: Four-digit LED display