

STRIP CHART RECORDERS

Model R88

- Access window for making chart notations
- Tear-off or re-roll operating modes
- Inkless, pressure sensitive chart assures continuous operation
- 31-day chart length

Preferred Instruments R88 Strip Chart Recorders are recommended for applications whenever a permanent record of a single variable is required. The R88 is a single channel, 31 day strip chart recorder requiring minimum panel area. Although compact in size, the R88 provides excellent readability, within 1% of chart width.

For example, when it is used on equipment such as boilers, heaters, incinerators or other potential sources of smoke, the chart becomes a permanent record of actual emissions. Permanent emission records are required by many municipalities having stringent air pollution regulations.

Typical Applications

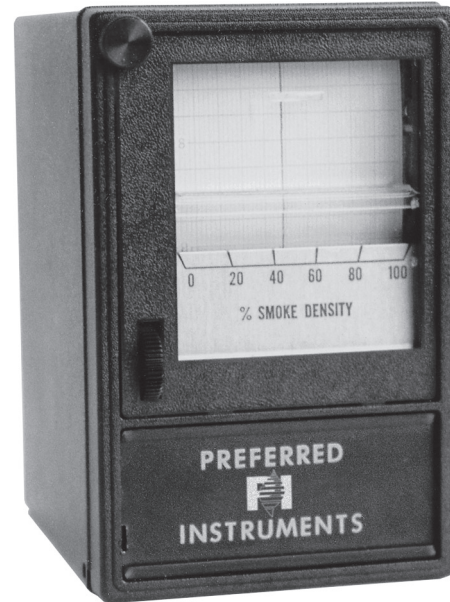
JC-30D/R88-C5 Smoke Opacity Monitor/Indicator/Control/Alarm provides a continuous record of actual smoke emissions including date, time, duration, and percent opacity. Units may be purchased as separate instruments or fully integrated and factory assembled. Contact the factory or your local representative for more information.

JC-15D/R88-C3 Flue Gas Temperature Monitor/Indicator/Control records flue gas temperature for evaluation of boiler heat transfer efficiency, burner operation, and effective maintenance scheduling.

TG-EL-D3/R88-E Fuel Oil Storage Tank Gauge records fuel oil inventory with time and quantity of deliveries and withdrawals.

Operation

The R88 Recorder is a DC galvanometer type. The pointer stylus responds to a variable input signal. Every two seconds a cam clamps the stylus to the pressure-sensitive paper, producing a dot impression. The succession of dots creates a continuous line. Since the dots are individually discernible, an excursion from the trace is easily identifiable. A distinct advantage when recording time, duration and value of intermittently intense variables such as smoke opacity.



Easy access to the re-roll storage. Re-rolled charts may also be unrolled for inspection, using the thumbwheel to rewind the chart onto the roll.



Chart rolls are loaded only once a month and may be inserted for either tear-off or re-roll (with chart quick review) operation. The pressure-sensitive paper does not require heat or pen and ink, reducing maintenance costs. The unique paper design avoids a material buildup on either the paper or the stylus. A self-locking chart advance wheel permits quick, accurate timing when loading or after a power failure. Explanatory chart notations can be made at any time through a sliding chart access window. "End of chart" warnings start three days before the end of each chart roll.

Readability

Although compact in design, the R88 Recorder provides large readability. Its 2 1/4" calibrated chart width is equal to 6" round charts. Calibration is linear with ten (10) major and fifty (50) minor divisions. The fine "dot" impressions form a trace readable to within 1% of chart width. For time determination, the chart travels one inch per hour. Each half day (12 inches in length) is numbered 1 to 12 with each hour divided into 15 minute intervals.

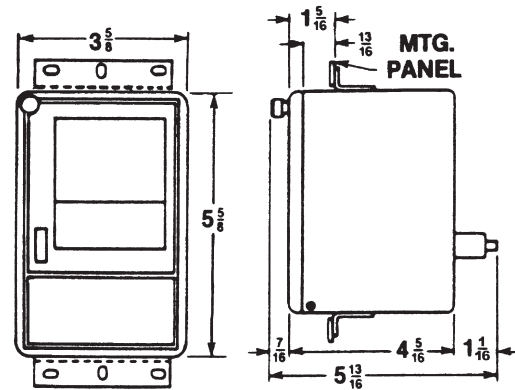
Instrument & Control
boilers larger than 50 bhp

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Specifications

Power:	110-135V, 60Hz, 5W
Ambient Temperature:	30° to 120° F
Response Time:	1.0 sec. for 100% travel
Chart Operation:	re-roll or tear-off modes
Chart Type:	inkless, pressure sensitive
Chart Scale:	10 major, 50 minor divisions
Chart Impression:	every 2 seconds
Chart Speed:	1" per hour
Chart Length:	31 days
Chart Width:	usable 2 1/4"
Accuracy:	within 2%
Housing:	high impact molded plastic
Weight:	2 3/4 lbs.
Mounting:	Wall (standard) Flush (escutcheon optional)

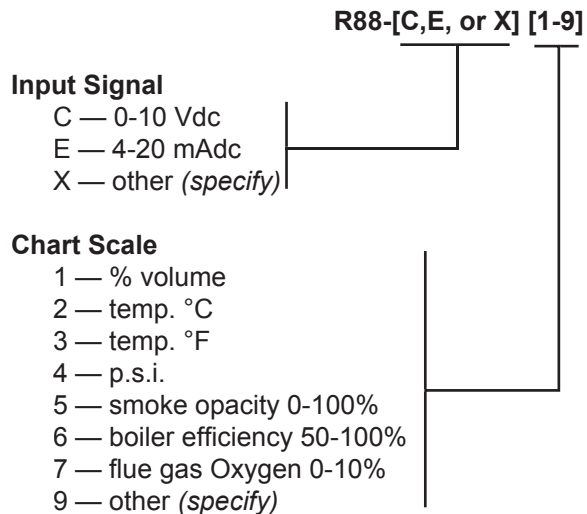


Suggested Specifications

Recorders shall be single channel, 31 day, strip chart type and shall accept (4-20 mAdc or 0-10 Vdc) input signal as determined by indicating devices. Integral to each recorder shall be an access window for notations, a chart advance wheel and the ability to remove sections of the chart at any time during operation without interruption of operation. Charts shall be equally graduated with ten (10) major and fifty (50) minor linear divisions. For time determination, the chart shall travel one inch per hour with each twelve inch chart segment numbered 1 through 12. Each one inch segment is divided into four equal parts or 15 minute segments. A cam driven stylus shall produce a single line compiled of a series of dots placed every two seconds on the pressure sensitive chart. Each chart shall provide three day advance warning of chart expiration. Strip chart recorder shall be Preferred Instruments, Danbury, CT, Model R88-[XX].

Ordering Information

Select R88 catalog number from the legend below according to condition being recorded.



Accessories:

Escutcheon for flush mounting: R88-2196
 Chart Rolls: R88-B-6639-6 (carton of 6)
 R88-B-6639-12 (carton of 12)

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