

« In pipe » measuring probe housing without lost water (Without pressure) CAC4xxx types - Input / Output screwed 1"

The "In pipe" measurement chambers have been designed to perform the measurement(s) of physicochemical parameters on open or closed gravity return pipes.

Their technique uses the principle of depression created between two points, one of which is provided with a "bevel" realizing the pressure increase necessary for the circulation of water inside the chamber. Of course, this measurement chamber can only work if the laminar velocity of the water in ms is sufficient. (Around 0.5m/s)

These measuring probe housings can be equipped with one or more mounting holes for standard $\frac{1}{2}$ "gas, PG13.5 or 1" gas sensors. In general, the $\frac{1}{2}$ "hole is provided for a temperature probe, the PG13.5 holes for pH, ORP(Redox) probes, etc ... and the 1" holes for CAAxxxx amperometric sensors type.

Available in several fixing systems, they can be adapted to PVC, steel, stainless steel or HDPE pipes.

With a simple and efficient technology, this equipment has a model deposit patent at the International Institute of Industrial Protection (INPI).

1. Technical features for 2x1" "In pipe" measuring probe housing

Hvdraulic connection : Nature : Using area : Operating range : Temperature range :

1" male PVC pressure max. 16 bars Swimming pool water or equivalent 0,5ms to 5m/s 0 to 55°C (32°F to 150°F)

Ref : CAC 4210 Ref : CAC 4211 Ref : CAC 4213

Probe housing references with diameter hole types :Ref : CAC 41092 holes PG 13,5 and 1 hole de 1"Ref : CAC 42092 holes PG 13,5, 2 holes ½" and 1"Ref : CAC 42101 hole PG 13,5, 1 hole ½" & 1 hole 1" 1 hole 1" only 1 hole PG13,5 and 1 hole 1"

For mounting kits using for PVC or PEHD 1" clamps, please add the corresponding measuring probe housing according your needs.

Accessories :

Clamps in 1" x 60,75,90,110,125,160 and 200mm Saddles to stick for PVC tube from 200mm to 3000mm For other method, please consult us.

2. Technical features of measuring probe housing to be solder on steel pipe

Hydraulic connection : Nature : Using area : Operating range : Temperature range :

Steel tube D=25mm to be soldered PVC pressure max. 16 bars Swimming pool water or equivalent 0,5ms to 5m/s 0 to 55°C (32°F to 150°F)

Probe housing references with diameter hole types : Ref : CAC 4204 2 holes PG 13,5 and 1 hole 1" Ref : CAC 4205 Ref : CAC 4206 Ref : CAC 4208 2 holes PG 13,5, 2 holes ½" and 1" 1 hole PG 13,5, 1 hole ½" & 1 hole 1" 1 hole 1" alone 1 hole PG13,5 and 1 hole 1" Ref : CAC 4207

User manual for "in pipe" measuring probe housing type CAC4xxx

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2. Technical features of measuring probe housing with 3 pieces union fittings



Hydraulic connection : Nature : Using area : Operating range : Temperature range : 50mm and 63mm PVC pressure max. 16 bars Swimming pool water or equivalent 0,5ms to 5m/s 0 to 55°C (32°F to 150°F)

Probe housing references with diameter hole types :Ref : CAC 42012 holes PG 13,5 and 1 hole 1"Ref : CAC 42022 holes PG 13,5, 1 hole ½" & 1 hole 1"

3. Montage/installation



: The center distance for drilling the 2 fixation holes in the pipe for fluid circulation must be **143 mm**.

Synoptic of working :



Before disassembling the measuring probe housings, close the shut-off valves upstream and downstream.

Take appropriate protective measures when handling sensors and take care to water loss when opening.

4. Winterization



If the installation risks freezing, put the measuring probe housing out of the water. Disassemble the sensors as indicated in each operating manual. Protect the cable ends of the electronic converter. Check the faucet closure ¼ turn.