

Sampling accessory to regulate flow with pressure reducing valve including flow measurement.

## Flowcontroller

Pressure reducing valve (0-4 bar), maximum inlet pressure 10bar.

Flowmeter made of Acrylglas with capillary tube including SWAN Flowmeter (Hallsensor) with 1m cable length.

Sample in- and outlets with female threads  $\frac{1}{8}$ " for Serto 8 mm connections.

### Functional principle

Flow regulation: when valve turning knob is pulled out the flow can be regulated. Lock the adjustment by pushing in the turning knob.

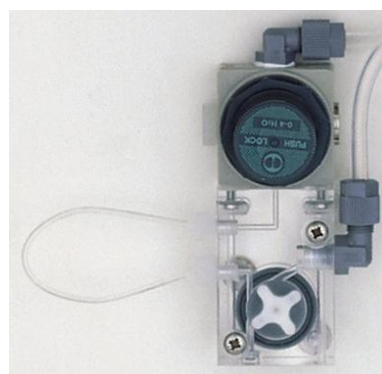
The flow measurement is displayed at the AMI transmitter.

The standard capillary tube (FEP, Inner-diameter 1mm, length 500mm) can be exchanged with shorter tubes if inlet pressure is low or if higher flow is required.

The controller performs only if the inlet pressure at the pressure reducing valve is at least 0,5bar higher than the outlet pressure (pressure before capillary tube); over the capillary tube the pressure needs to be reduced at least 0,5bar. Therefore the sample inlet pressure needs to be at least 1 bar (better 1,5bar).

### Dimensions

- Width: 150 mm
  - Front-to-back: 80 mm
  - Height: 120 mm
- Panel mounting: 2 screws M4x40



### Technical data

#### Sample connections

- Inlet and outlet: G 1/8" thread  
Each equipped with-Serto fitting (PA) for 6mm tube.

#### Sample conditions

(for the flow cell without sensor!)

- Flow rate: 4 to 15 l/h
- Temperature: up to 50 °C
- Inlet pressure @ 25 °C: at least 1bar  
up to 10 bar
- Pressure-free outlet (atmospheric drain)
- Particle size: below 0.5 mm
- No strong acids and bases
- No organic solvents

### Delivery

Sample Distribution Manifold ready for installation as specified in the order scheme:

Order Nr.:	Flowcontroller	A-82.521.201
Accessory:	Tubing kit with 1 short and 1 long, assembled capillary tube	A-86.190.050