

Applications

For the control of temperature and pressure in industrial or process plants. The indicating controller is used for control of liquid, gaseous or vaporous media. The instrument senses the temperature/ pressure of the measured medium directly, displays the operating value, compares the measured variable with the set point and puts out a pneumatic signal in the

standard range of 0.2 to 1 bar or 3 to 15 psi. This output pressure actuates the final control element. Four control forms are available: ON-OFF, P, P+I, P+I+D. The units can also be used for remote control of processes operating whether with a pneumatic transmitter (output 0.2-1 bar or 3-15 psi) or as a receiver controller (input 0.2-1 bar, 3-15 psi).



Technical data

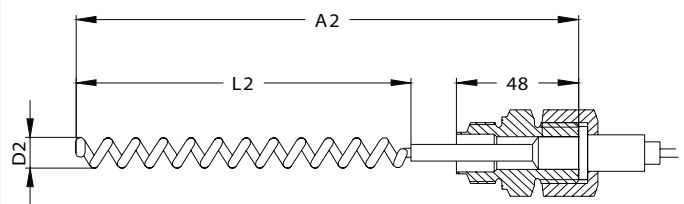
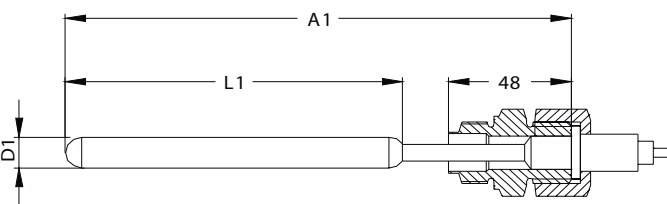
Body	Die cast aluminium with anti corrosive paint	
Cover	ABS	
Degree of protection	IP55	
Mounting	Wall or panel	
Pneumatic connections	¼" NPT	
Supply air pressure	20±1.5 psi / 1.4 ± 0.1 bar	
Output	3-15 psi / 0.2-1 bar	
Proportional action	Proportional band ∞...200%	
Integral action	>0...>10 rep. /min.	
Derivative action	0...>5 min. rep	
Steady state air consumption	Air supply 20 psi / 1,4 bar	0,13 Nm³/h
Max. air delivery	Air supply 20 psi / 1,4 bar	2,6 Nm³/h
Accuracy	≤ 1% deviation	
Histeresis	≤ 0.5%	
Non linearity	≤ 0.5%	
Repeatability	≤ 0.5%	
Control range	0...150 °C	
Permissible ambient temperature	-20...+ 80 °C	
Weight	~3 kg	

Options

- External set point knob
- Box for tropical conditions
- Output signal 6 to 30 psi / 0.4 to 2 bar

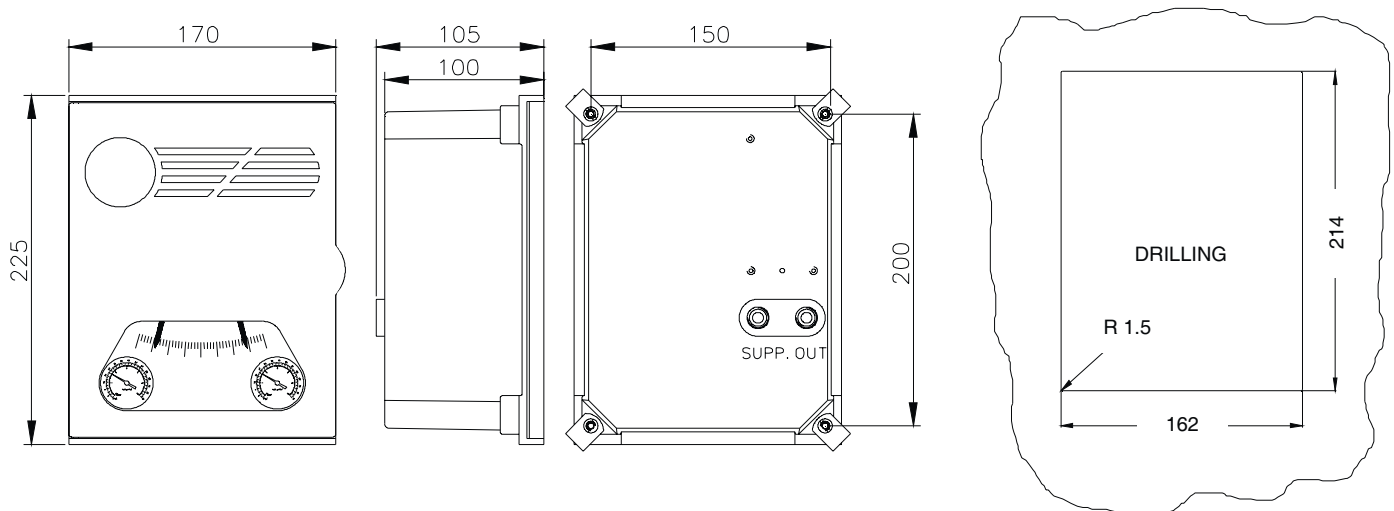
Subject to changes without notice.

Temperature element

Sensor for gasses	Sensor for liquids
 <p style="text-align: center;">R12 - W23</p>	 <p style="text-align: center;">R11 - W23</p>
Temperature sensing nitrogen-filled, 2 m capillary length, conn. ISO 228 - G $\frac{3}{4}$ B, material: S.S. ASTM A240 Type 316L	Temperature sensing nitrogen-filled, 5 m capillary length, conn. ISO 228 - G $\frac{3}{4}$ B, material: S.S. ASTM A240 Type 316L

SPAN	25°C	30°C	40°C	50°C	60°C	70°C	80°C	100°C	120°C	130°C	150°C	200°C	250°C	300°C	400°C	500°C
A1	250	250	250	200	200	200	200	200	200	200	200	200	200	200	200	200
L1	170	170	170	120	120	120	120	120	120	120	120	120	120	120	120	120
D1	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13
A2	250	250	250	200	200	200	200	200	200	200	200	200	200	200	200	200
L2	170	170	170	130	130	120	120	120	120	120	120	120	120	120	120	120
D2	16	16	16	16	16	14	14	14	14	14	14	14	14	14	14	14

Dimensions



Subject to changes without notice.

