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ELECTRIC ROOM TEMPERATURE CONTROLLERS

GENERAL INFORMATION

A sensitive vapor filled thermal element operates the electrical circuit to maintain the desired temperature. The entire mechanism is secured to sturdy bakelite base.

A steel cover, encloses the mechanism and the electrical components.

Terminal blocks are at rear of the base. Set point adjustment on top of case.

SPECIFICATIONS

Range

: 10°÷ 30°C

Ambient temperature

limits

: -5° +40°C

Finish

: in ABS, white coloured

Weight

: 0,45 Kg

Enclosure

: IP 30 (DIN 40050)



Code	Model	Action	Differential °C	Electrical circuit	Electrical rating
350001	A61 - R3	two position	1,5	1 SPDT	6(1)A - 220 V c.a.
350061	A61 - 3A	three stage heating		- *	
350062	A61 - 3C	three stage cooling			
350063	A61 - 2A - 1C	two stage heating one stage cooling	1,2 each stage	3 SPST (*)	3(0,5)A - 220 V a.c.
350064	A61 - 1A - 2C	one stage heating two stage cooling			

Code	Model	Action	Proportional band °C	Electrical circuit	Supply
350011	1 A61-M	proportional	1,5	one 165 Ω potentiometer	
350012	A61-ML	proportional for limit action	2,5	one 340 Ω potentiometer	
350071 A61-M2		proportional for sequence control	3	two 165 Ω potentiometer	24 V a.c.
350072	A61 - M22	proportional for unison control	1,5	two 165 Ω potentiometer	

Locate the thermostat where it will be exposed to unrestricted natural air circulation and to average conditions of the controlled space.

Do not locate the thermostat near sources of heat or cold, which might affect the control point.

Fasten mounting plate on the wall.
Pull all wires through the opening on the plate.
Make all electrical connections to thermostat.
Hook thermostat on mounting plate and tighten mounting screw until thermostat is secure.

WIRING

The screw-type terminal are provided on back of thermostat for all electrical connections. Make all connections in accordance with the job wiring diagram and in compliance with national and local electrical codes.

SETTING

The set-point value can be adjusted at any point along the scale, by means of screw on top of cover.

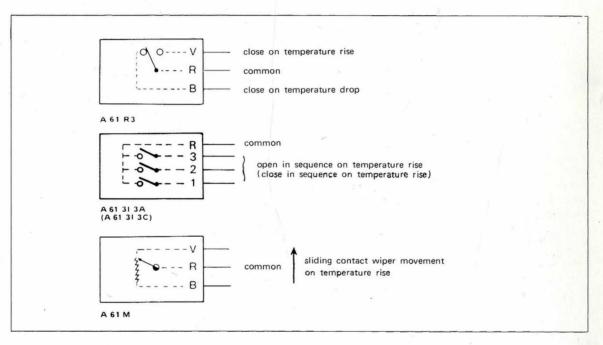
A61-R3 The main scale setting determines the point at which contacts R-B will break.

A61-3A/3C The main scale setting determines the point at which contacts R - 2 will break.

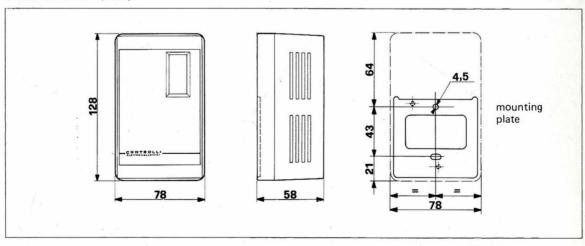
A61-M The main scale setting determines the point at which sliding contact wiper is at center of the active potentiometer winding.

CALIBRATION

All thermostats are precision calibrated at the factory and normally will not require any recalibration.



DIMENSIONS (mm)



VIRTUAL MUSEUM



ELECTRIC ROOM HUMIDITY **CONTROLLERS**

GENERAL INFORMATION

Highly sensitive multiple hair element operates the electrical circuit to maintain the desired humidity. The entire mechanism is secured to sturdy bakelite base.

A steel cover encloses the mechanism and the electrical components.

Terminal bloks are at rear of the base. Set point adjustment, with frontal knob.



SPECIFICATIONS

Ambient temperature : min. -5; max. +40°C

Finish

: in ABS white coloured

Weight

: 0,45 Kg

Enclosure

: IP 30 (DIN 40050)

ON - OFF	CONTROL					
Code	Model	Action	Range % R.H.	Differential % R.H.	Electrical circuit	Electrical rating
350304 350307	U 61 - R 3 UB 62	on – off	30 ÷ 90 40 ÷ 85	5	SPDT	3(0,5)A - 220V a.c

		1				
Code	Model	Action	Range % R.H.	Proportional Band % R.H.	Electrical circuit	Supply
350306	U 61 - M	proportional	30 ÷ 90	15	one 165 Ω potentiometer	24 V a.c.
350310	U 61 - ML propo	proportional for limit action	30 : 30	25	one 340 Ω	24 V a.C.

INSTALLATION

Locate the humidostat where it will be exposed to unrestricted natural air circulation and to the average conditions of the controlled space.

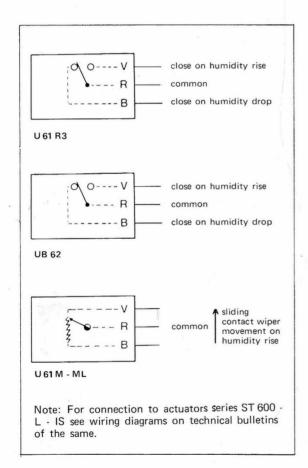
Do not located the humidostat near sources of hear or cold, or in spaces where the temperature is below 5°C or over 40°C .

Fasten mounting plate on the wall.
Pull all wires through the opening on the plate.
Make all electrical connections to humidostat.
Hook humidostat on mounting plate and tighten mounting screw until humidostat is secure.

WIRING

The screw-type terminals are provided on back of humidostat for all electrical connections.

Make all connections in accordance with the job wiring diagram and in compliance with national and local electrical codes.



SETTING

The set-point value can be adjusted at any point along the scale, by means of frontal knob.

UB 62

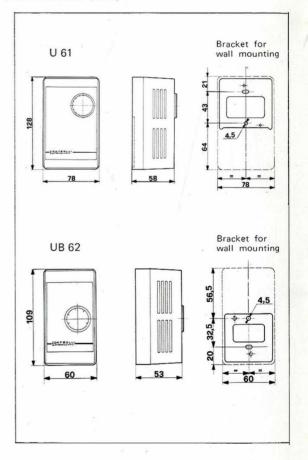
U61R3 The main scale setting determines the point at which contacts R - B will break.

U 61-M The main scale setting determines the point at which sliding contact wiper is at center of active potentiometer winding.

CALIBRATION

All humidostats are precision calibrated at the factory and normally will not require any calibration.

DIMENSIONS (mm)





BULB TEMPERATURE CONTROLLERS

GENERAL INFORMATION

A sensitive vapor filled thermal element operates the electrical circuit to maintain the desired temperature. The entire mechanism is secured to sturdy die cast aluminium finish case.

A gasketed cover enclosed the mechanism, the electrical contacts and the terminal block.

Set point adjustment with knob on top of the case.

The front is provided with a large protected window for viewing temperature setting

SPECIFICATIONS

Sensing element: - C 300 Copper bulb and

capillary (2 m)

– C 300/S Copper spiral
(\$\phi\$ 30 \times 70 mm)

Ambient temp. : $-5 \div 50^{\circ}$ C Enclosure : IP 54 (DIN 40050)

Finish : Aluminium case - blue cover

Weight : 1,5 Kg



Code	Model	Range °C	Max safe bulb temp. ℃	Differential ℃	Electrical circuit
355305	C 305	−30 ÷ 10	40		
355306	C 306	$-10 \div 40$	50		
355307	C 307	20 ÷ 70	85	A divetable	one SPDT micro switch
355308	C 308	55 ÷ 120	135	Adjustable 1.5 ÷ 5	15 (2.5)A - 250 V c.a.
355309	C 309	95 ÷ 140	155	1,5 - 5	15 (2,5)A - 250 V C. a.
355310	C 310	135 ÷ 200	230		
355312	C 306 S	-10 ÷ 40	50		

Special model - Two stage or floating control C30.2R3 with two SPDT micro switches - Differential adjustable, minimum 3°C.

Code	Model	Range °C	Max safe bulb temp. °C	Proportional Band °C	Electrical circuit	Power supply
355355	C 355	−30 ÷ 10	50	Adjustable 2 ÷ 10		24 V a.c.
355356	C 356	-10 ÷ 40	50			
355357	C 357	20 ÷ 70	85		one 165 Ohm	
355358	C 358	55 ÷ 120	135		potentiometer	
355359	C 359	95 ÷ 140	155		potentiometer	
355360	C 360	135 ÷ 200	230			
355362	C 356 S	$-10 \div 40$	50		1	

Special model

C35.ML with one 340 Ohm potentiometer for proportional limit action

C35.M2 with two 165 Ohm potentiometer for sequence control

C35. M22 with two 165 Ohm potentiometer for unison control



Head-office: via c. levi 16161 Genova Tel. (010) 405841 (c.r.a.) Telex 271217 contge - I Branch-office: 20124 Milano Piazza L. di Savoia, 22 Tel. (02) 273554 - 2716577 Branch-office: 00197 Roma Via M. Mercati, 37 tel. (06) 878295 telex 614397 romrep - I

ACCESSORIES

G1 - Code 275080 - Copper well - length 180 mm

3/4 gas tapping

Max fluid pressure: 20 Kg/cm²

G4 - Code 275082 - Stainless steel well - length 180 mm

3/4 gas tapping

Max fluid pressure: 40 Kg/cm²

R1 - Code 275084 - Brass compression fitting

3/4 gas tapping

R2 - Code 275085 - Stainless steel compression fitting

3/4 gas tapping

OPTIONAL

CX - Code 355821 - Stainless steel bulb and capillary

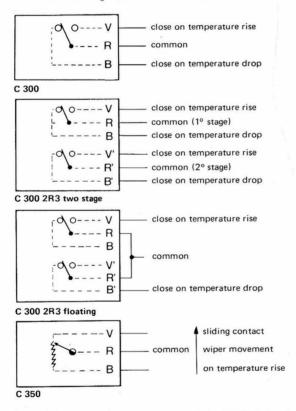
tubing (1,6 m long)

WIRING

The screw-type terminals are provided inside the case for all electrical connections.

Make all connections in accordance with the job wiring diagram and in compliance with national and local electrical codes.

Be sure before replacing the cover that the wires are clear from moving mechanism of controller.



Note: For connection to actuators series $ST\,600\cdot L\cdot IS$ see wiring diagrams on technical bulletins of the same.

SETTING



Turn setting knob until main scale indicator points to the desired average temperature.

DIFFERENTIAL-THROTTLING RANGE ADJUSTMENT

The differential for two position controllers and the throttling range on proportional ones is adjustable by one screw located on top of the case just in front of the setting knob.

Set differential or throttling range at minimum value necessary to make the system stable.

CALIBRATION

All controllers are precision calibrated at the factory and normally will not require any recalibration.

DIMENSIONS (mm)

