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ULTIMHEAT®



THERMOSTATS WITH INGRESS PROTECTION HOUSINGS

and connection boxes for heating elements

The professional solution: an extended, rational and consistent range of products

Technical catalogue for R&D department

Edition 02/04/2013



E-Mail: info@ultimheat.com Web: www.ultimheat.com

Empty enclosures, Aluminum and plastic, general use Type Y4





Because of permanent improvement of our products, drawings, descriptions, features used on these data sheets are for guidance only and can be modified without prior advice



These aluminum and plastic housings are designed for receiving and mounting electronic or electromechanical components. They come bare without internal equipment and without holes or cable glands. Similar housings, equipped with temperature controls are presented elsewhere in this catalog (see Y3 series: Enclosures for immersion heaters) and in the catalog N °3 (Industrial control series Y6, Y7 and Y8)

Aluminum housings

There are 4 different surface finishes for these aluminum housings

- As cast, deburred: Last character of the reference = 0
- As cast, vibration deburred and polished: smooth finish. Last character of the reference = 7
- Sand blasted finish: excellent adhesion of epoxy paint (Last character of the reference = 1)
- Epoxy-gray RAL7035 painted: last character of the reference = G (other colors on request)



Housings in Plastic



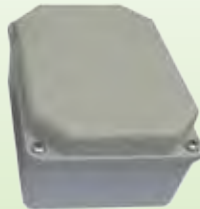


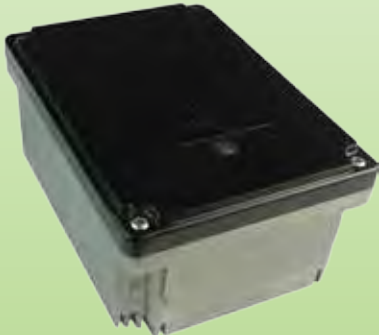
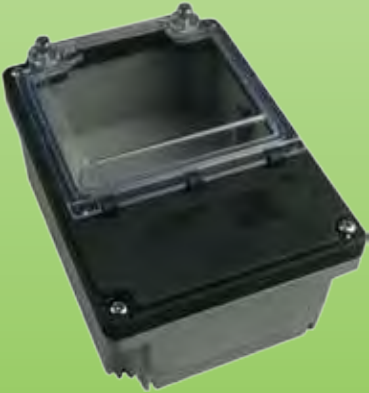
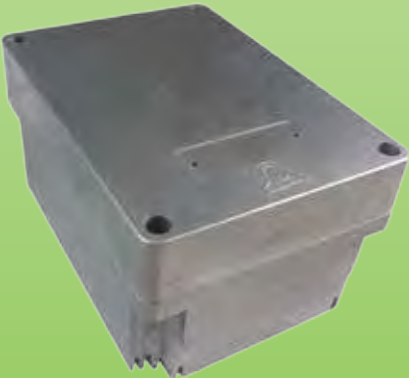
- **Body:** ADC12 Aluminum
- **Transparent covers:** Polycarbonate
- **Opaque covers:** Polycarbonate
- **Covers with window:** Frame in PA66, glass fiber reinforced, and polycarbonate window.

The technical specifications of these plastic materials are described in the technical introduction of the catalogue N°3 (Industrial controls)

Wiring harness services: If you wish to get control housings fully equipped and wired, please specify desired combinations, our wiring division (UL approved) is at your disposal.

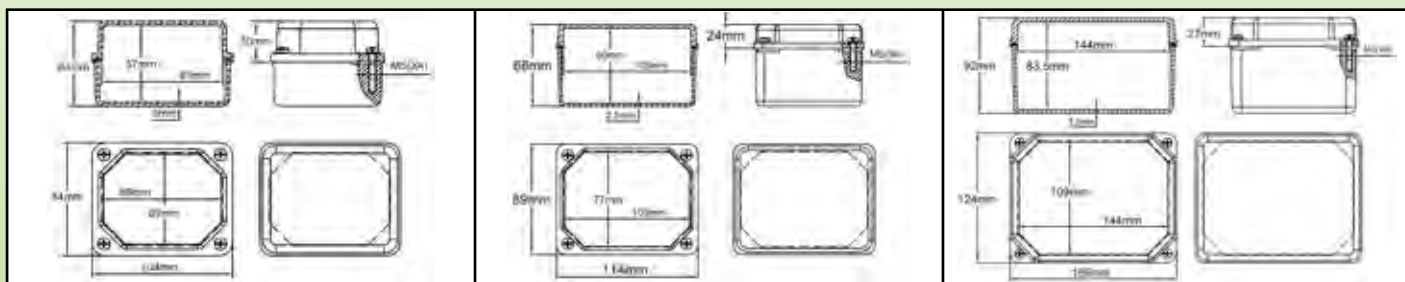
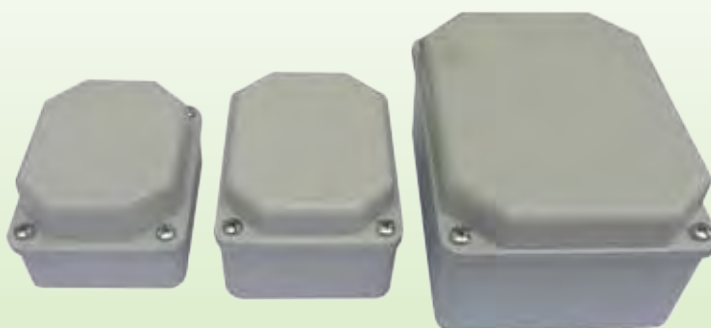
Machining of housings: On request, we can drill these housings upon your requirements.

Main products of the Y4 range

Y4A	Page 173	Y4B	Page 173	Y4C	Page 173
 <p>Aluminum box 64x84x104mm</p>		 <p>Aluminum box 66x89x114mm</p>		 <p>Aluminum box 93x124x159mm</p>	
Y4D	Page 174	Y4E	Page 175	Y4F	Page 175
 <p>Aluminum box 40x86x175mm</p>		 <p>Aluminum-plastic box with transparent polycarbonate cover 81x130x180mm</p>		 <p>Aluminum-plastic box with black polycarbonate cover 81x130x180mm</p>	
Y4G	Page 175	Y4H	Page 176		
 <p>Aluminum-plastic box with transparent window in polycarbonate 95x130x180mm</p>		 <p>Aluminum box 96x132x182mm</p>			

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Empty aluminum boxes for controls, types Y4A, Y4B, Y4C



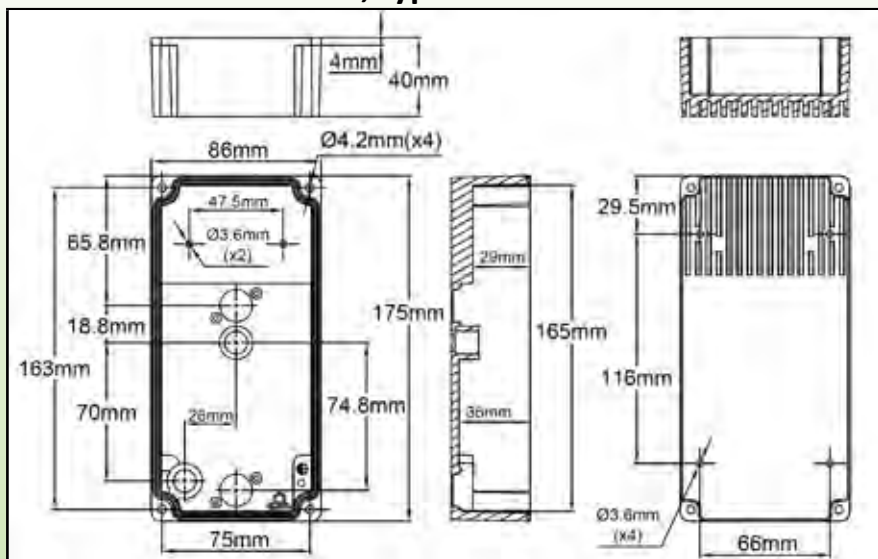
Material: Aluminum ADC12
Fasteners: M5, stainless steel
Cover gasket: NBR
Weight: Y4A : 345grs/ Y4B : 445grs/ Y4C : 980grs/

References	Size	Surface finish
Y4AA064084104000	64x84x104mm	As cast, deburred
Y4AA064084104007	64x84x104mm	As cast, vibration deburred and polished
Y4AA064084104001	64x84x104mm	Sand blasted finish
Y4AA06408410400G	64x84x104mm	Epoxy-gray RAL7035 painted
Y4BA066089114000	66x89x114mm	As cast, deburred
Y4BA066089114007	66x89x114mm	As cast, vibration deburred and polished
Y4BA066089114001	66x89x114mm	Sand blasted finish
Y4BA06608911400G	66x89x114mm	Epoxy-gray RAL7035 painted
Y4CA092124159000	92x124x159mm	As cast, deburred
Y4CA092124159007	92x124x159mm	As cast, vibration deburred and polished
Y4CA092124159001	92x124x159mm	Sand blasted finish
Y4CA09212415900G	92x124x159mm	Epoxy-gray RAL7035 painted

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Empty aluminum box for controls, type Y4D



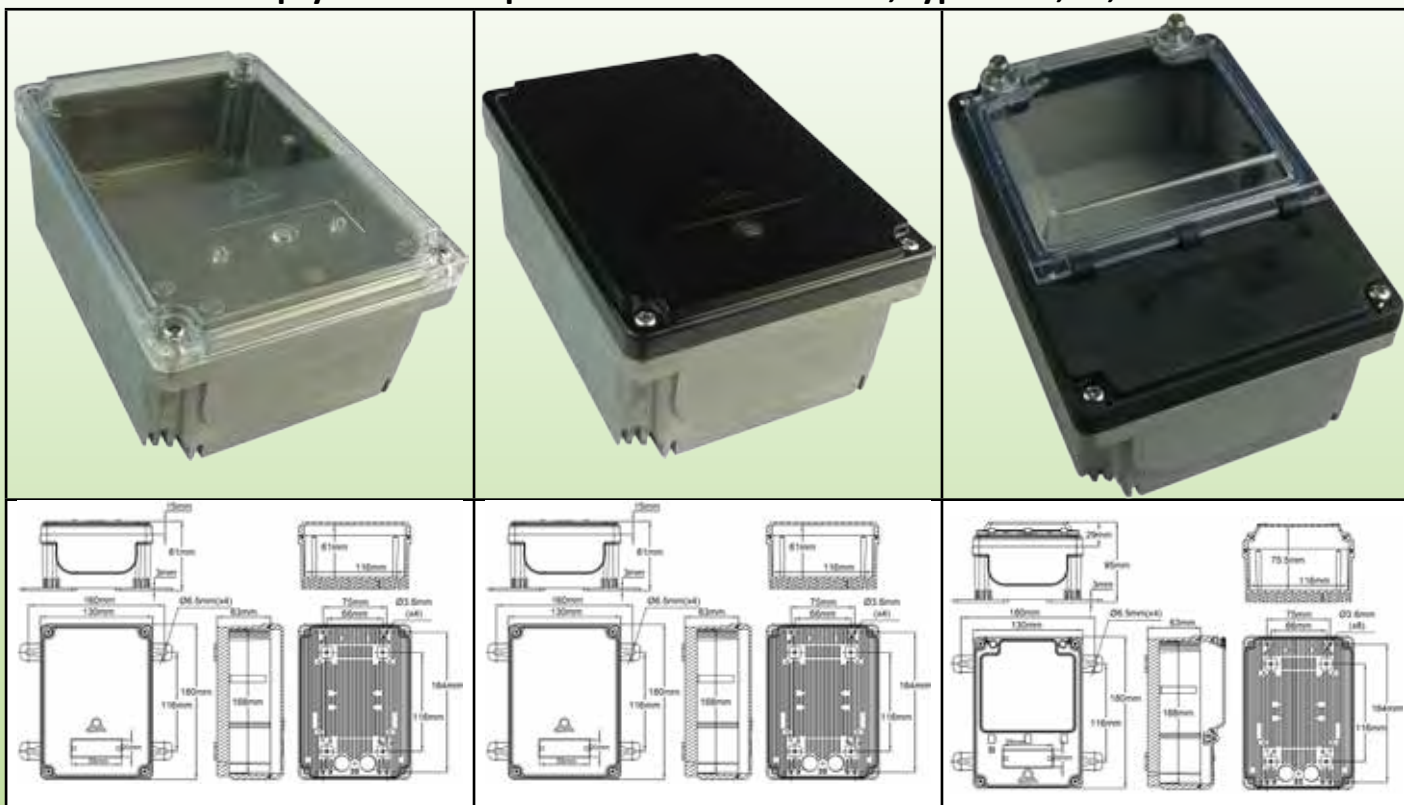
Material: Aluminum ADC12
Fasteners: Not supplied. 4 holes di 4.2 mm allows to mount a cover
Cover gasket: Not supplied
Specific feature: Rear side with cooling fins on ¼ of the surface
Weight: 386 grs

References	Surface finish
Y4DA040086175000	As cast, deburred
Y4DA040086175007	As cast, vibration deburred and polished
Y4DA040086175001	Sand blasted finish
Y4DA04008617500G	Epoxy-gray RAL7035 painted

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Empty enclosures, Aluminum and plastic, general use, Type Y4

Empty aluminum-plastic boxes for controls, types Y4E, YF, Y4G



Material: Body Aluminum ADC12, cover polycarbonate (PA66+ Polycarbonate for window model)

Identification: Recess for identification label, adhesive or riveted

Fasteners: M5, stainless steel

Specific feature: Rear side with cooling fins

Mounting: 4 removable mounting legs on rear side

Cover gasket: Silicone foam

Weight with flat cover: 990 grs

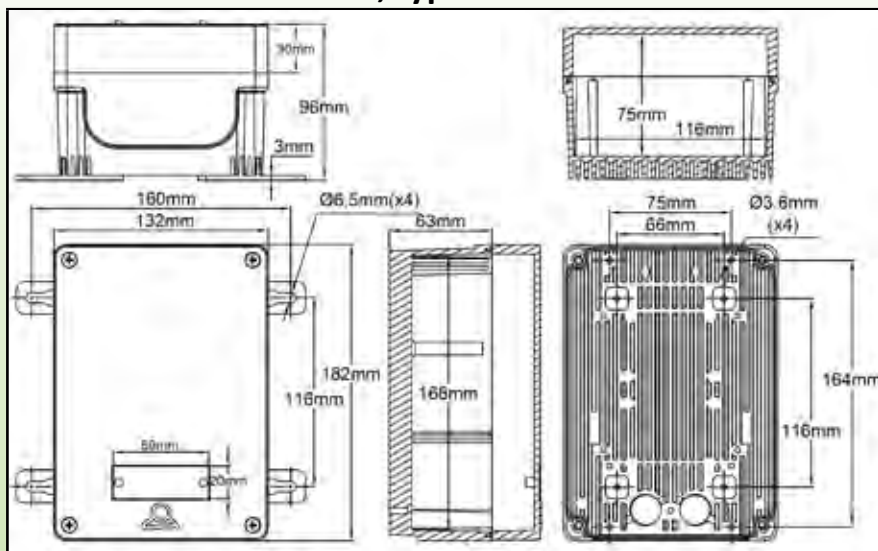
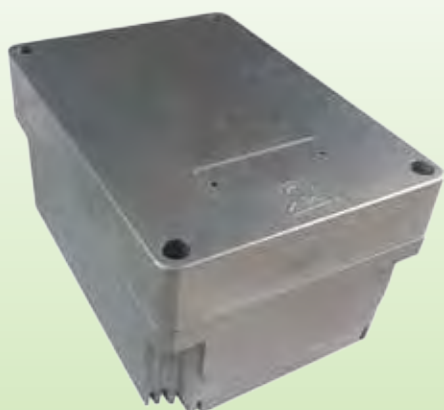
Weight with window cover: 1076 grs

Cover	Surface finish	References
Transparent polycarbonate 	As cast, deburred	Y4EM081130180000
	As cast, vibration deburred and polished	Y4EM081130180007
	Sand blasted finish	Y4EM081130180001
	Epoxy-gray RAL7035 painted	Y4EM08113018000G
Black polycarbonate 	As cast, deburred	Y4FN081130180000
	As cast, vibration deburred and polished	Y4FN081130180007
	Sand blasted finish	Y4FN081130180001
	Epoxy-gray RAL7035 painted	Y4FN08113018000G
Transparent polycarbonate window 	As cast, deburred	Y4GH081130180000
	As cast, vibration deburred and polished	Y4GH081130180007
	Sand blasted finish	Y4GH081130180001
	Epoxy-gray RAL7035 painted	Y4GH08113018000G

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Empty aluminum boxes for controls, type Y4H



Protection rating: IP65, IK10 (Can be rated IP69K on request)

Material: Aluminum ADC12

Identification: Recess for identification label, adhesive or riveted

Fasteners: M5, stainless steel

Specific feature: Rear side with cooling fins

Mounting: 4 removable mounting legs on rear side

Cover gasket: Silicone foam

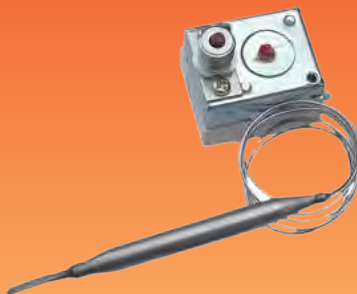
Weight: 1377 grs

References	Surface finish
Y4HA096132182000	As cast, deburred
Y4HA096132182007	As cast, vibration deburred and polished
Y4HA096132182001	Sand blasted finish
Y4HA09613218200G	Epoxy-gray RAL7035 painted

Many other temperature control components made by Ultimheat are used in appliances, commercial and industrial applications



Single pole and 3 poles bulb and capillary thermostats (Catalogue N°1)



Single pole, double pole and 3 poles Fail safe manual reset thermostats (Catalogue N°1)



Surface temperature control bimetal thermostats (Catalogue N°1)



3 poles manual reset disc thermostats (Catalogue N°1)



Energy regulators (Catalogue N°1)



Industrial temperature control boxes, with thermostats or electronic controllers (Catalogue N°3)



Simple to use Din Rail electronic temperature controllers (Catalogue N°3)



Electronic temperature controllers, On-Off or PID (Catalogue N°3)



Explosion proof thermostats and "e" increased safety connection boxes (Catalogue N°4)

Other catalogues

 **ULTIMHEAT®** 1



ELECTROMECHANICAL AND ELECTRONIC THERMOSTATS RANGE
for incorporation

For these thermostats, incorporated inside various boxes, housing and cabinets, see catalogues 0, 2 and 3.
Explosion proof versions: See catalogue 4.

assembled, tested, and certified range of products

Technical catalogue for R&D department

 **ULTIMHEAT®** 3



INDUSTRIAL ELECTRONIC AND THERMOSTAT CONTROLS

electronic controllers, thermostatic control boxes, sub-assemblies and accessories for temperature control in electro-thermal equipment.
YB-V7-V8 series

For:
Heat tracing, immersion heaters, Air heaters,
Flexible surface heating elements, HVAC.

assembled, tested, and certified range of products

Technical catalogue for R&D department

 **ULTIMHEAT®** 4





EXPLOSION PROOF THERMOSTATS
Types Y9

For industrial and high end applications in non-hazardous areas: see our catalogue 3.
For standard applications with ingress protection housing, in non-hazardous areas: see our catalogue 2.
For incorporation in non-hazardous areas see our catalogue 1.

assembled, tested, and certified range of products

Technical catalogue for R&D department

 **ULTIMHEAT®** 5



PRESSURE SWITCHES

Air switches,
Positive Pressure switches,
Vacuum pressure switches,
Differential pressure switches

Customer membrane types, medium pressure range (20 to 1500 mbar)

assembled, tested, and certified range of products

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 **ULTIMHEAT®** 6




FLOW SWITCHES AND COMBINATION CONTROLS

assembled, tested, and certified range of products

Technical catalogue for R&D department

 **ULTIMHEAT®** 7





FLOAT LEVEL SWITCHES

Vertical and horizontal models
For OEM applications

assembled, tested, and certified range of products

Technical catalogue for R&D department

 **ULTIMHEAT®** 8



HUMIDISTATS and Electronic humidity controls

assembled, tested, and certified range of products

Technical catalogue for R&D department

 **ULTIMHEAT®** 9



FIRE DETECTION FUSIBLE LINKS

A fusible link is a mechanical part that breaks at a preset temperature, they are used in fire detection system to open or close door, dampers, vents etc., if ambient temperature rise upon a certain value.

assembled, tested, and certified range of products

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 **ULTIMHEAT®** 10



CERAMIC CONNECTION BLOCKS and Special connectors

assembled, tested, and certified range of products

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