



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

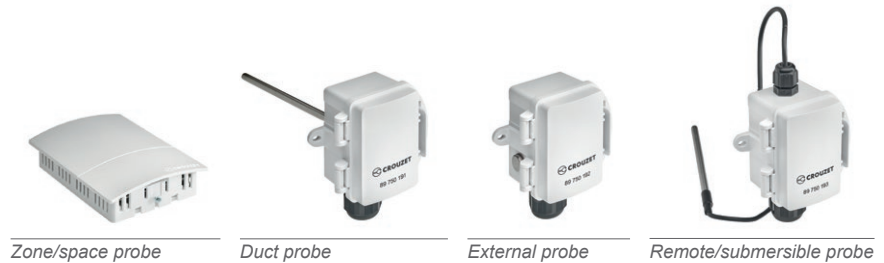
Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



› Millennium 3, Millennium Evo & em4 Accessories Temperature sensors

› Integrated converter:
0-10 V_{DC} / 4-20 mA
output for direct
connection to the em4 and
Millennium 3 analog inputs



Specific Characteristics						
Description	Range	Accuracy	Supply	Protection casing	Protection probe	Code
Zone/space probe	-10 → +40 °C	See curve	24 V $\overline{\sim}$	IP30	-	89 750 190
Duct probe	-10 → +60 °C	See curve	24 V $\overline{\sim}$	IP54	IP65	89 750 191
External probe	-10 → +40 °C	See curve	24 V $\overline{\sim}$	IP54	IP65	89 750 192
Remote/submersible probe	-10 → +110 °C	See curve	24 V $\overline{\sim}$	IP54	IP65	89 750 193

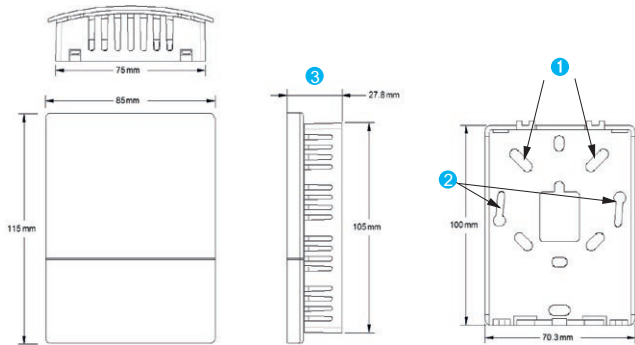
Accessories			
Description	Accuracy	Protection casing	Code
316 stainless steel protective sleeve	-20 → +400 °C	16 bar	89 750 147

General characteristics	
Environmental characteristics	
Ambient characteristics	89 750 190: -10 → +50 °C / 89 750 191 - 192 - 193: -30 → +70 °C
Ambient humidity	0 → 95 % RH no condensing
Housing material	ABS (flame retardant)
Electrical characteristics	
Supply voltage	24 V $\overline{\sim}$
Output	0 → 10 V _{DC} / 4 - 20 mA self-detecting (not loop powered)

Diagrams

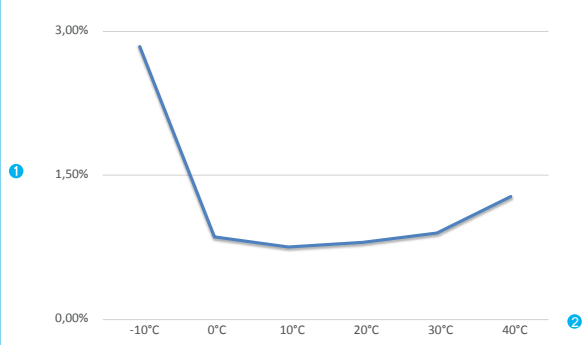
Dimensions (mm)

89 750 190



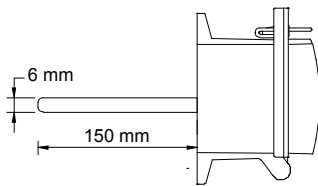
- 1 Cut-outs made prior to delivery
- 2 Fixing holes
- 3 Total depth 27.8 mm

89 750 190

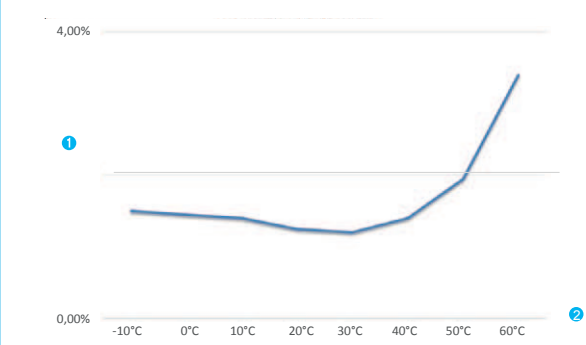


- 1 Accuracy
- 2 Temperature

89 750 191

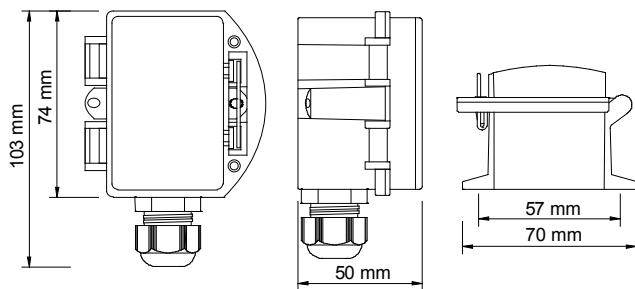


89 750 191

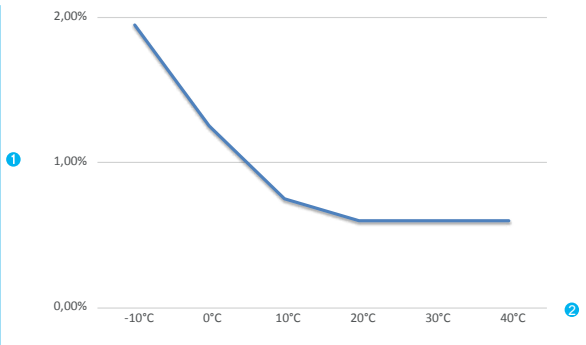


- 1 Accuracy
- 2 Temperature

89 750 192

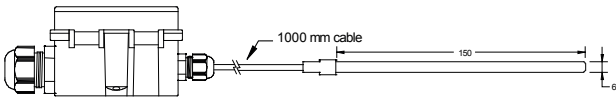


89 750 192

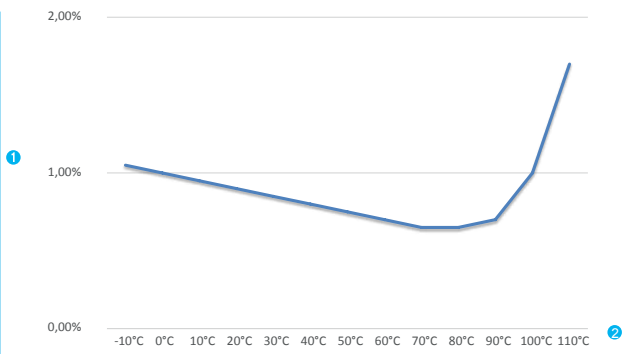


- 1 Accuracy
- 2 Temperature

89 750 193

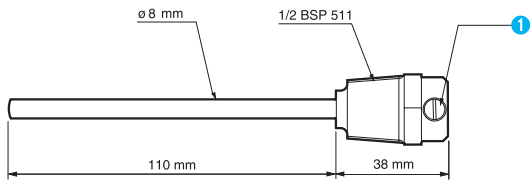


89 750 193



- ① Accuracy
- ② Temperature

Accessory 89 750 147 for 89 750 193



- ① M4 screw

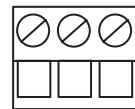
Connections

89 750 190



OUT Auto-selecting 0-10 V_{DC} or 4-20 mA (3-wire) output
GND Common 0V
24V Supply +24 V_{AC} or V_{DC}

89 750 191 / 89 750 192 / 89 750 193



OUT GND 24V

OUT Auto-selecting 0-10 V_{DC} or 4-20 mA (3-wire) output
GND Common 0V
24V Supply +24 V_{AC} or V_{DC}