Multi-level-resistance thermometer, Type

“W-M 100 (150,250,450,630…) FHaKa“

Rigid design with

custom-manufactured connection option

Set-up:

Resistance thermometer 1(or number n=x) Type “Pt100” or “Pt1000”, performance according to DIN EN 60571, Tolerance class B, A or better, installed in an SS protective sleeve, extended with MI cable, insulation made of highly compressed magnesium powder.

Installed in a protective fitting made of stainless steel or Inconel, e.g. with connecting flange, neck tube and connecting box with cable gland connections and installed series terminals, measurement transmitters are also possible.
If required the cable gland connections can also be replaced by various plug versions.

Other process connections or designs not listed here, can also be supplied. (For other options, please refer to the worksheet).

Specification of sensors and max. recommended temperature loading for the sensor type:

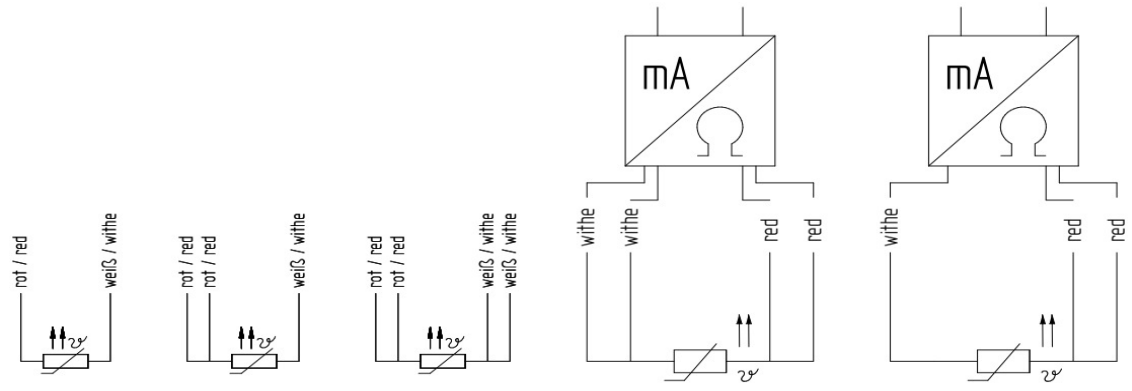
Pt100 / 1000,
tmax. 600°C

For an improved response time, the sensors can be connected under certain conditions with the inner walls of the protection sleeve; see special designs section or ask our technical customer service department.

Areas of application:

Chemicals:	in vessels & reactors
Petrochemicals:	In catalyst filling and in distillation columns
Research:	In laboratories and technical facilities for media such as gases, vapours and liquids

Example type of wiring:



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Multi-level-resistance thermometer, Type

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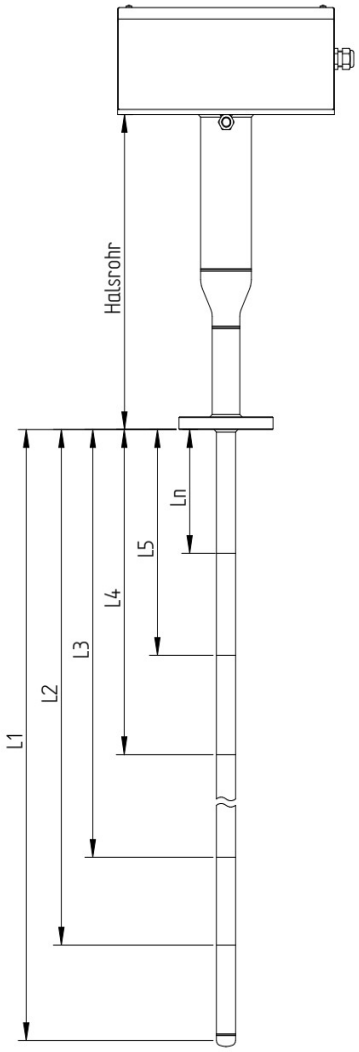

Possible number of measuring points with single sensor “W-Ma 2016”:

Protection sleeve	n~ measuring points	Lmax./metres	Mat.
9.0*1.5mm	≤9	6.0m	VA/Inco*
12.0*2.0mm	≤18	6.0m	VA/Inco*
12.0*2.5mm	≤13	6.0m	VA/Inco*
14.0*2.5mm	≤24	6/3m	VA/Inco*
21.3*2.6mm	≤79	12/12m	VA/Inco*

** if available*

Protective tube diameter D:
indicate acc. table
Ø diameter _____
other _____
max. protection sleeve length up to
Process connection_____

Protective tube material:
1.4301/1.4541 |☺|
1.4404/1.4571 |☺|
2.4816 (Inconel) |☺|
other _____

Process connection:
Nozzle _____
Compression fitting_____
Flange _____
other _____

Material:
1.4301/1.4541 |☺|
1.4404/1.4571 |☺|
2.4816 (Inconel) |☺|
other _____

Connection box:
Plastic |☺|
Aluminium |☺|
Stainless steel |☺|
Protection type IP54 |☺|
Protection type IP65 |☺|
other _____

Transmitter:
INOR |☺|
PR electronics |☺|
other _____

ATEX Ex nA |☺|
ATEX Ex e |☺|
ATEX Ex ia |☺|
other _____

Please enter additional information for version with connection boxes here:
(Example: number and size or input screwed connections, number and design of required fittings such as plug connections or assembly aid etc.)

Nominal length NL: Document measurement point distribution here, or attach enquiry in separate file/sheet.

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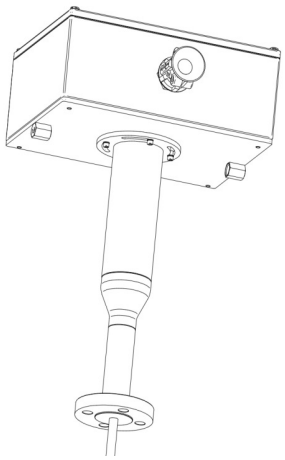
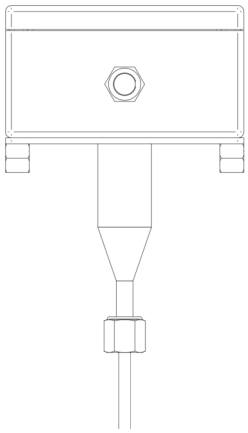
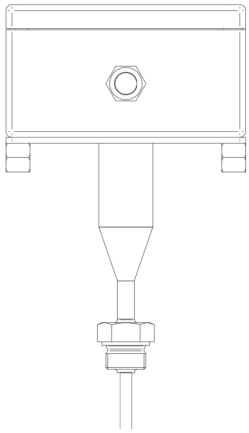
Example
with flange, swivel box



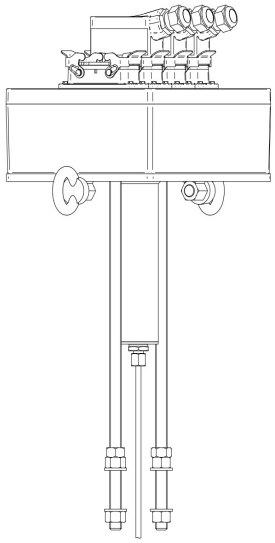
Example
with cap nut



Example
with threaded nozzle



Example
with plug connection



optionally instead of connection box with transition dome for recessed Lemosa coupling directly in dome (box):

Lemosa recessed box:

Lemosa housing Size: depending on number of measuring points – specification by KMP
Plug |☺| Receptacle |☺|

optionally instead of a connection box with transition dome inc. extension leads with/without assembled plug system:

connected multi-cable:

Insulation PVC |☺| Silicone |☺| Teflon |☺|
Shielding Yes |☺| No |☺|
Ferrules|☺|
other_____

KLead length:

KL=350mm |☺|
KL=1500mm |☺|
KL=3000mm |☺|
other_____

Plug-in connection with:

Lemosa Plug |☺| Receptacle |☺|
Harting Plug |☺| Receptacle |☺|
other _____
without plug; otherwise only ferrules |☺|

Temperature load: Measuring point: from _____ to _____ °C environment/connection cable: _____ °C

Sensor element:

1*Pt100 |☺| 2*Pt100 |☺|
Pt1000 |☺| 2*Pt1000 |☺|
other _____

Tolerance class:

Class "B" |☺|
Class "A" |☺|
other _____

Circuit technology:

2-conductor |☺|
3-conductor |☺|
4-conductor |☺|

Temperature transmitter:

Standard |☺|
HART |☺|
Profibus |☺|
Sil 1 |☺|
Sil 2 |☺|
other _____

Company/Sender: _____ Your Ref.-No.: _____
Contact: _____ Quantity: _____
Street/Town: _____ Delivery time: _____
Email address: _____ Telephone: _____

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