



ULTRAMESS® 403  
MULTICAL® 403





MULTICAL® 403



> 60 °C













230 VAC



16/25 bar



	04
	05
	07
	12
	19
	22
	24
	27
	28
	31



[https://guides.kamstrup.com/userguides/gb\\_mc403.htm](https://guides.kamstrup.com/userguides/gb_mc403.htm)



<https://www.kamstrup.com/en-en/heat-solutions/meters-devices/meters/multical-403/documents>



<https://www.kamstrup.com/>



1/2

**E1** (Red icon with wavy lines)

MID ✓ EN 1434 ✓

$\theta$ : 2 °C...180 °C  $\Delta\theta$ : 3K...178K ✓

**E2** (Blue icon with snowflake)

DK-BEK 1178 ✓ EN 1434 ✓

$\theta$ : 2 °C...180 °C  $\Delta\theta$ : 3K...178K ✓

**E3** (Grey icon with thermometer)

$\theta_q$ : 2°C...130°C ✓



**E1** ✓ **E2** ✓

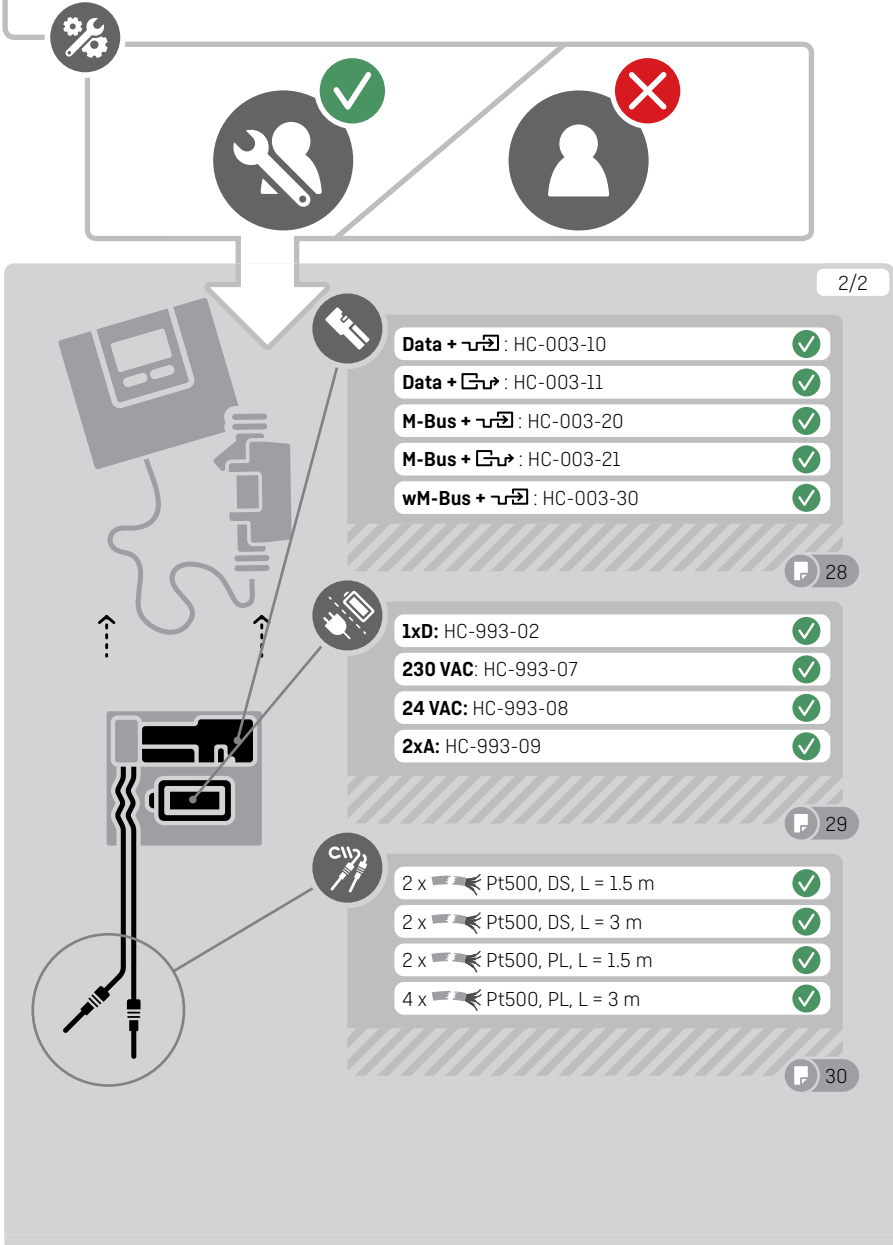
**M1** ✓ **M2** ✓

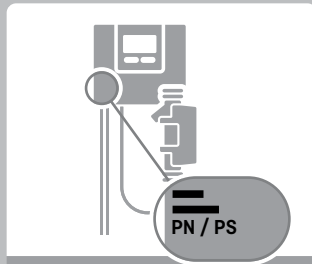
5°C...55°C ✓

IP 54 ✓

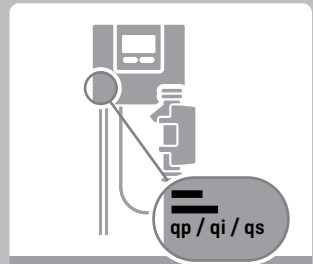
IP 68 ✓

> 25 CM

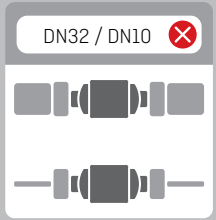
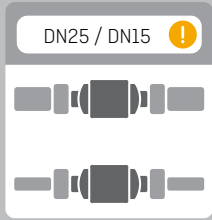
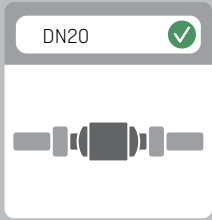
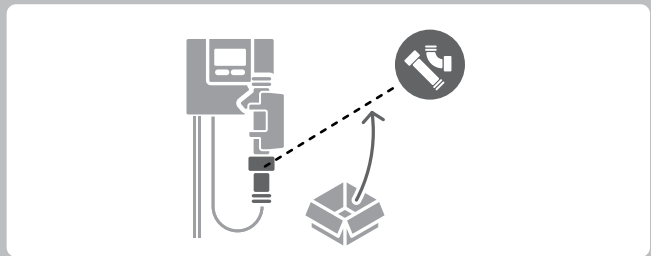


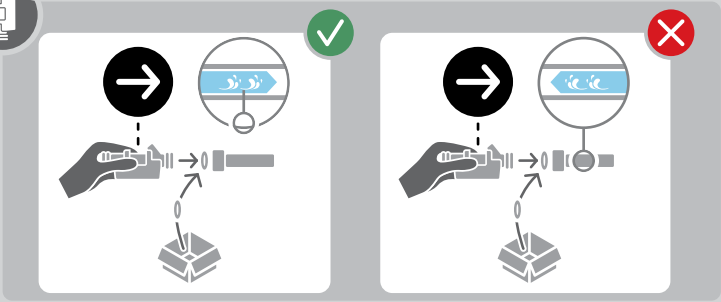
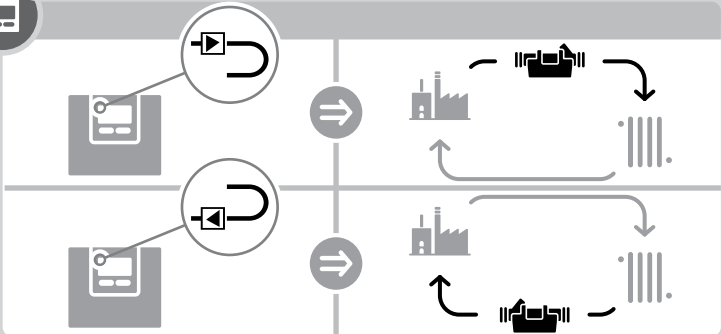
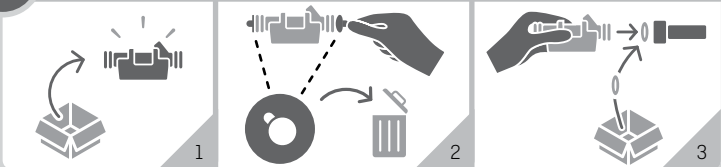


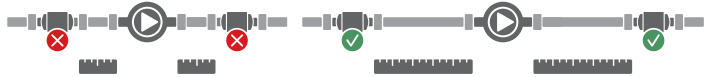
- PN16, PS16 ✓
- PN25, PS25 ✓
- PN16/PN25, PS25 ✓



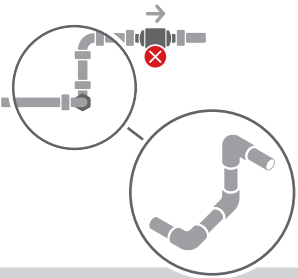
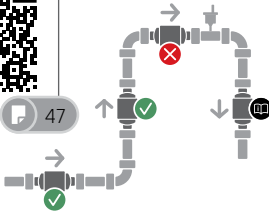
- qp: XX m<sup>3</sup>/h ✓
- qi: XX l/h ✓
- qs: XX m<sup>3</sup>/h ✓

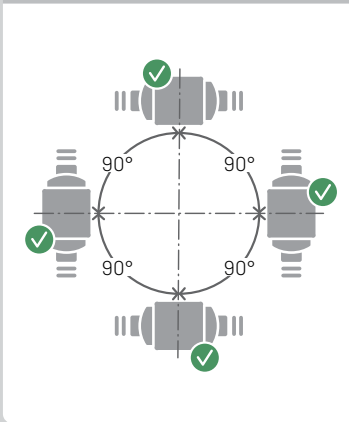






47

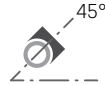




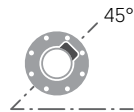
qp 0.6...2.5 m<sup>3</sup>/h



qp ≥ 3.5 m<sup>3</sup>/h



qp ≥ 6.0 m<sup>3</sup>/h

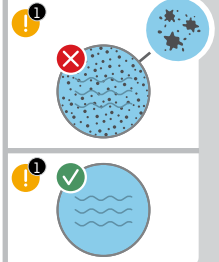
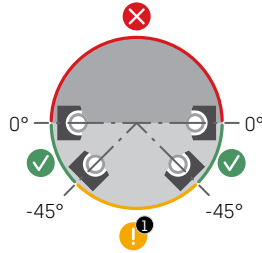




qp 0.6...2.5 m<sup>3</sup>/h



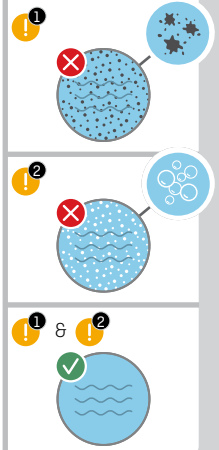
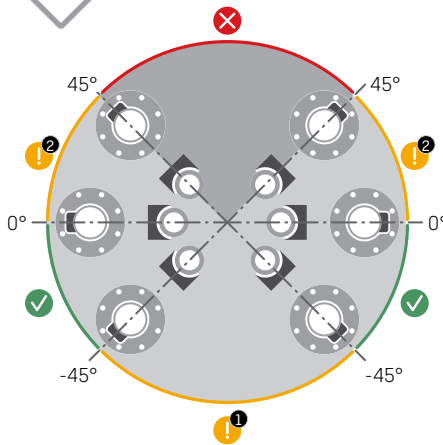
49

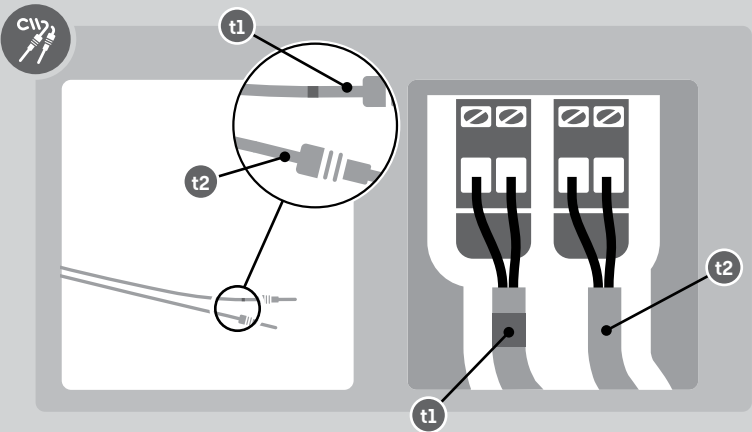
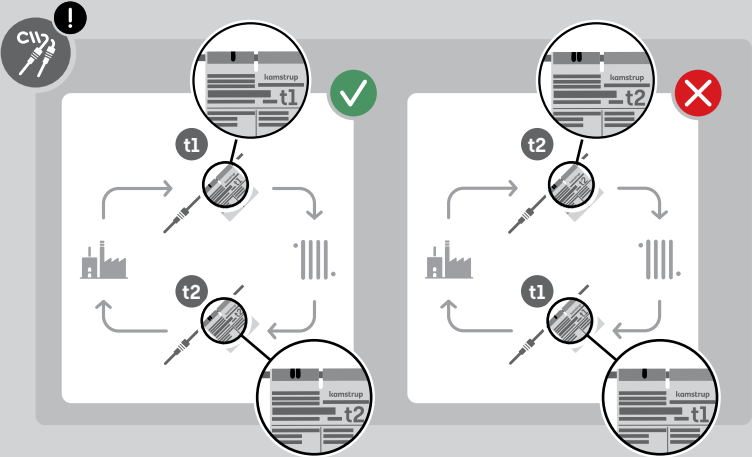


qp ≥ 3.5 m<sup>3</sup>/h



qp ≥ 6.0 m<sup>3</sup>/h

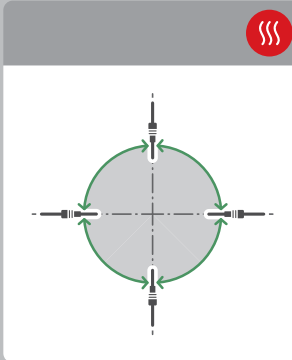
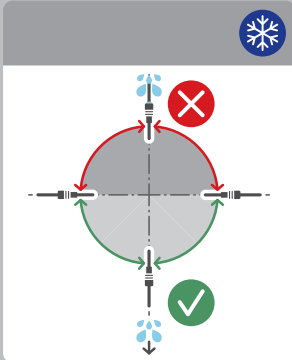
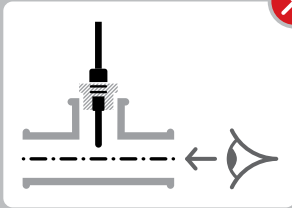
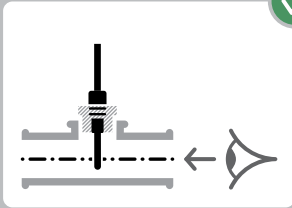






[x1] t1 [x2] t2 [x0] t3

	t1	t2	/  t3
/			





PN16  PN25

PN16  PN25



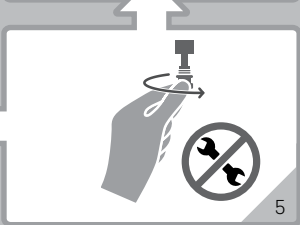
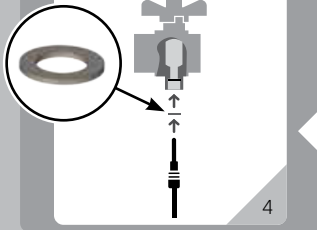
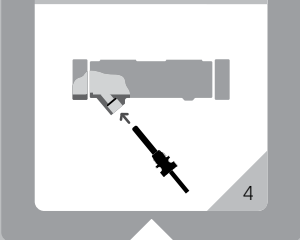
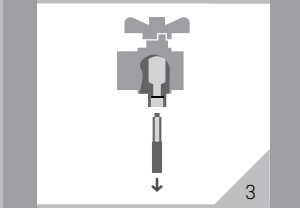
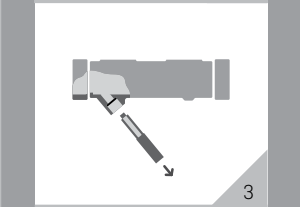
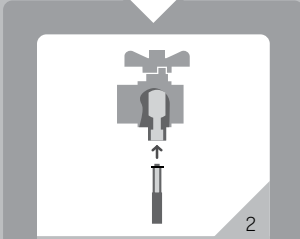
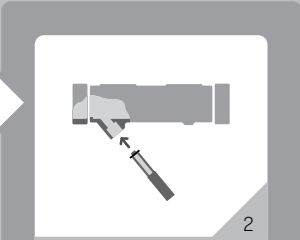
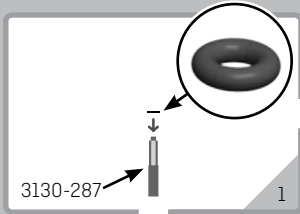
qp	DN	G
0.6-1.5	15	G¾B
0.6-1.5	20	G1B
3.5-6	25	G5/4B
10	40	G2B
15	50	-

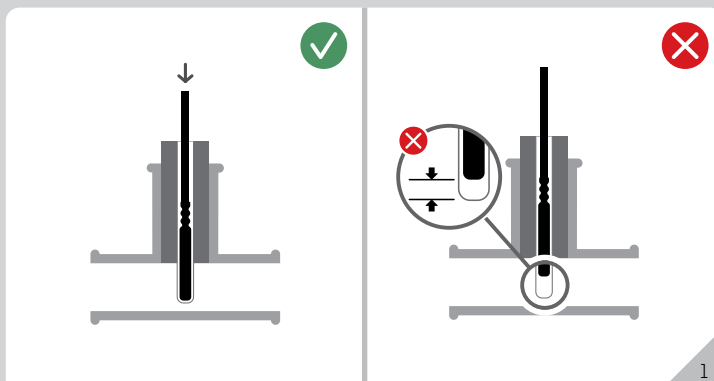
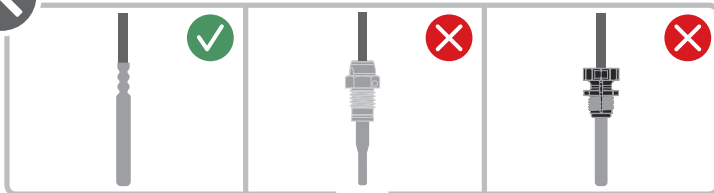


+ CIW <input checked="" type="checkbox"/>
<b>DS 27.5</b>
X
X
X

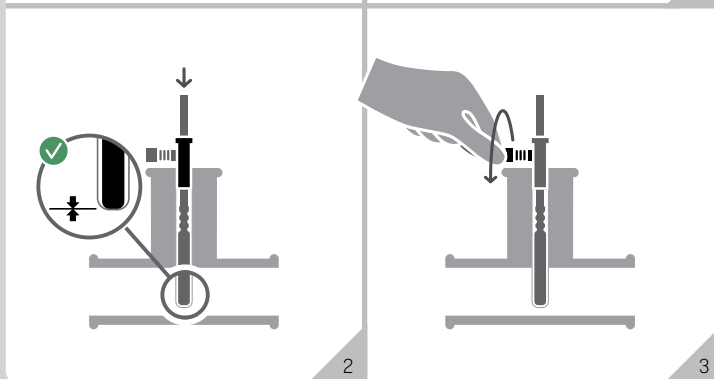
+ CIW <input checked="" type="checkbox"/>
<b>DS 38</b>
X

+ CIW <input checked="" type="checkbox"/>
<b>PL Ø5.8</b>
X





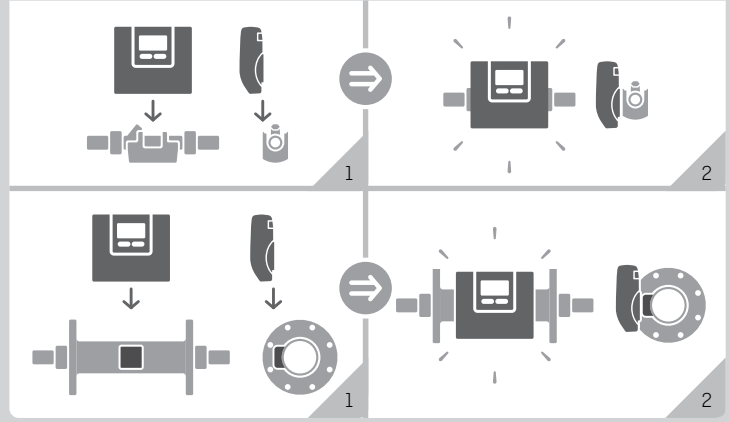
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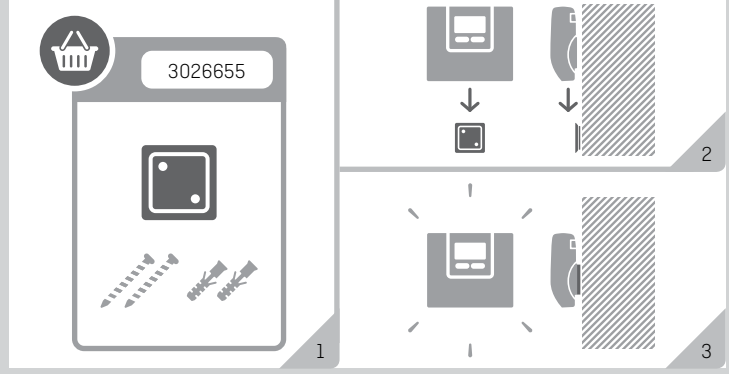
2

3



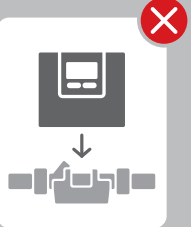
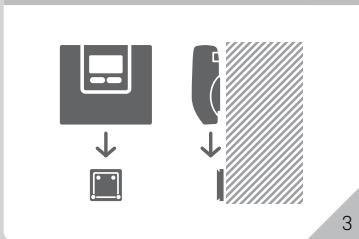
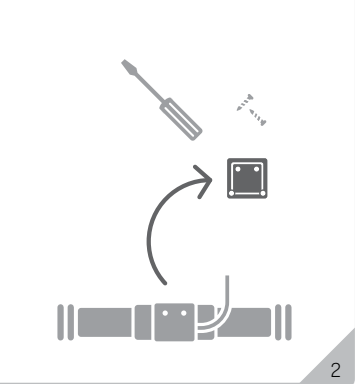
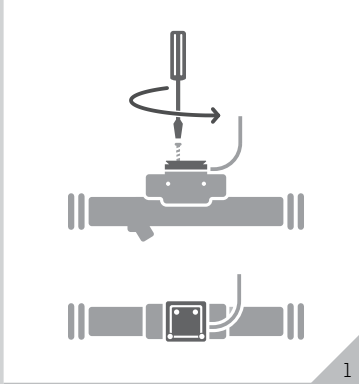



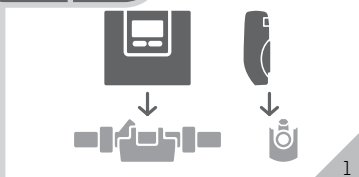
$q_p \leq 2.5 \text{ m}^3/\text{h}$  ✓ 
 
 $\theta_q > 90 \text{ }^\circ\text{C}$  ✓ 
 
 $\theta_q < \text{RT}$  ✓



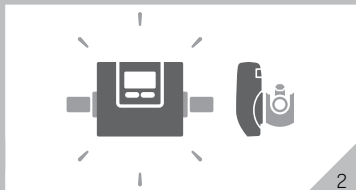


$q_p > 2.5 \text{ m}^3/\text{h}$  ✓  $\theta_q > 90 \text{ }^\circ\text{C}$  ✓  $\theta_q < \text{RT}$  ✓

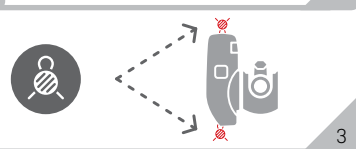
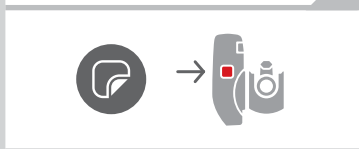




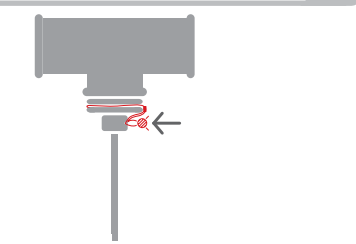
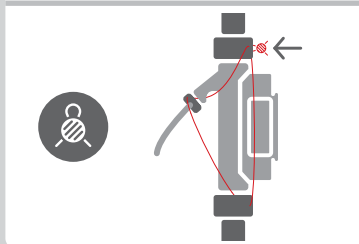
1

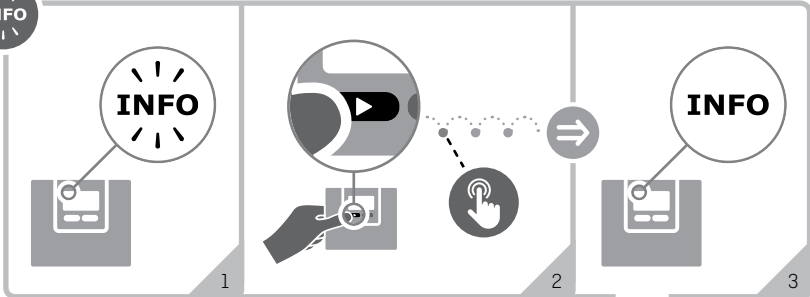


2



3





1/2

	1	2	3	4	5	6	7	8	
<b>Info</b>	<b>t1</b>	<b>t2</b>	<b>0</b>	<b>V1</b>	<b>0</b>	<b>In-A</b>	<b>In-B</b>		
1									
2									
9									
	1								<b>t1 &gt; 185 °C</b>
		1							<b>t2 &gt; 185 °C</b>



INFO

Info	t1	t2	0	V1	0	In-A	In-B
	2						
		2					
	9	9					
				3			
				4			
				6			
						8	
						9	
						8	
						9	

$t1 < 0\text{ }^{\circ}\text{C}$

$t2 < 0\text{ }^{\circ}\text{C}$

$\Delta t (t1 - t2) = \text{X}$

V1:

V1:

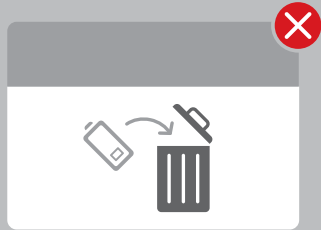
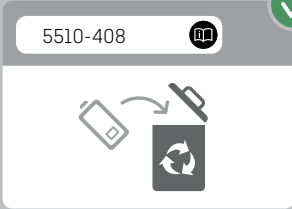
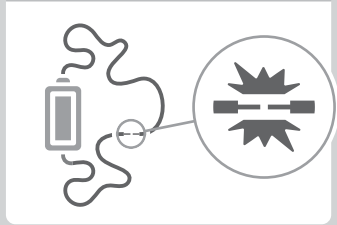
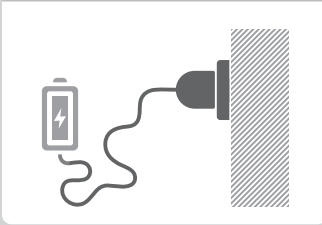
$V1 > q_s$

A:

A:

B:

B:





230 VAC / 50 Hz / 1 W



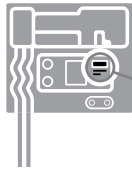
230 VAC / 50 Hz / 1 W

24 VAC / 50 Hz / 1 W



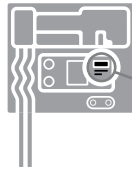
24 VAC / 50 Hz / 1 W

230 VAC



230 VAC

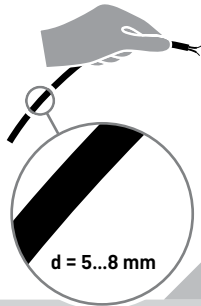
24 VAC



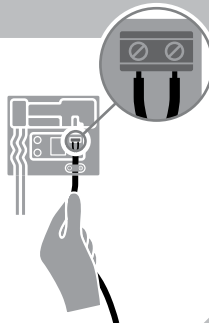
24 VAC



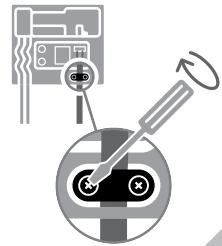
d = 5...8 mm



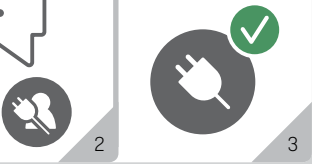
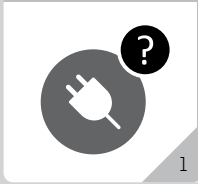
1

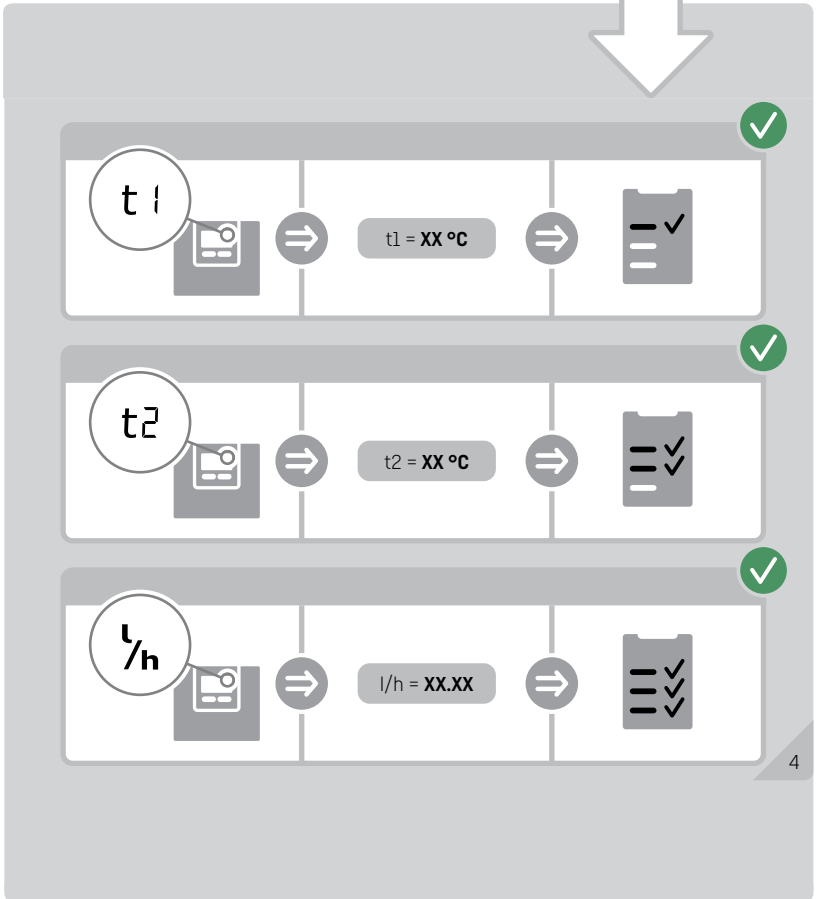
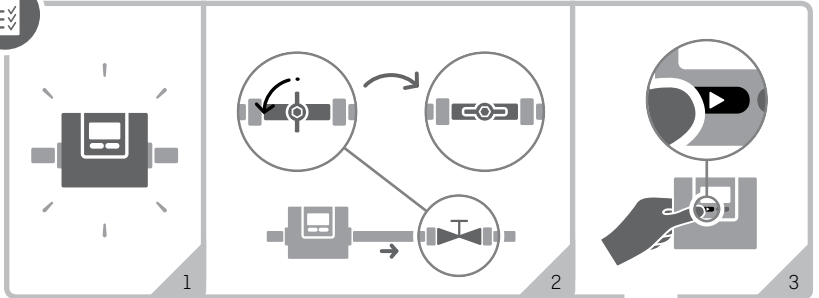


2



3







<https://www.kamstrup.com/en-en/heat-solutions/meters-devices/meters/multical-403> ✓



Data +	HC-003-10	✓
Data +	HC-003-11	✓
M-Bus +	HC-003-20	✓
M-Bus +	HC-003-21	✓
M-Bus +	HC-003-22	✓
linkIQ/wM-Bus +	HC-003-32	✓
linkIQ/wM-Bus +	HC-003-33	✓
wM-Bus+	HC-003-34	✓
Analog	HC-003-40	✓
PQT+	HC-003-43	✓
Radio +	HC-003-50	✓
Radio GDPR +	HC-003-51	✓
NB-IoT +	HC-003-56	✓
BACnet +	HC-003-66	✓
Modbus RTU +	HC-003-67	✓
BACnet IP +	HC-003-81	✓
Modbus +	HC-003-82	✓

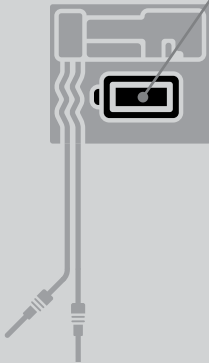
= In-A / In-B

= Out-C / Out-D

= Out 1 / Out 2



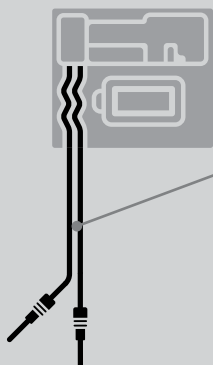
<https://www.kamstrup.com/en-en/heat-solutions/meters-devices/accessories>



1xD	HC-993-02	✓
230 VAC ⚡	HC-993-03	✓
24 VAC/VDC ⚡	HC-993-04	✓
1xC IoT	HC-993-06	✓
230 VAC	HC-993-07	✓
24 VAC	HC-993-08	✓
2xA	HC-993-09	✓



<https://www.kamstrup.com/en-en/heat-solutions/meters-devices/temperature-sensors>

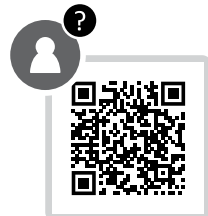


- 2 x Pt500, DS, L = 1.5 m
- 2 x Pt500, DS, L = 3 m
- 2 x Pt500, PL, L = 1.5 m
- 4 x Pt500, PL, L = 3 m



The diagram illustrates the layout of the meter's display, which is organized into several sections:

- Top Row:**
  - Left: VOL 0034732 m<sup>2</sup> (with icon A)
  - Middle: 15.7 kW (with icon kW)
  - Right: 0.343 l/h (with icon l/h)
- Left Column (Energy and Temperature):**
  - EL 0014958 kWh (with icon B)
  - TA 2 0009089 MWh (with icon TA2)
  - TA 3 0005453 MWh (with icon TA3)
  - TA 4 0003635 MWh (with icon TA4)
  - INFO 00000000 (with warning icon)
- Right Column (Temperatures and Time):**
  - t 12 39.38 °C (with icon t1, t2)
  - t 2 27.14 °C (with icon t2, home icon)
  - t 1 66.52 °C (with icon t1, home icon)
  - 0026280 h (with icon h)
  - 0102906 m<sup>3</sup> (with icon m<sup>3</sup>)
- Bottom Row:**
  - N° 123 (with icon 1, N°)
  - E 1 0046092 MWh (with icon E1, heat waves icon)
  - E 3 0039350 MWh (with icon E3, snowflake icon)



DDD = 310/610

[https://guides.kamstrup.com/userguides/gb\\_mc403.htm](https://guides.kamstrup.com/userguides/gb_mc403.htm)



## MULTICAL® 403

