



MULTICAL® 803 & ULTRAFLOW®





MULTICAL® 803 & ULTRAFLOW®



> 60 °C



230 VAC



16/25/40 bar



04



05



07



13



22



24



29



32



33



36



https://guides.kamstrup.com/userguides/gb_mc803.htm



<https://www.kamstrup.com/en-en/heat-solutions/meters-devices/meters/multical-803/documents>



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



1/2

E1

MID ✓ EN 1434 ✓
 θ : 2 °C...180 °C $\Delta\theta$: 3 K...178 K ✓

E3

DK-BEK 1178 ✓ EN 1434 ✓
 θ : 2 °C...180 °C $\Delta\theta$: 3 K...178 K ✓

E1 E3

EN 1434 ✓
 θ : -40 °C...140 °C $\Delta\theta$: 3 K...178 K ✓

ULTRAFLOW®

θ_q : 2 °C...130 °C ✓
 θ_q : 15 °C...130 °C ✓



E1 ✓ **E2** ✓

M1 ✓ **M2** ✓

5 °C...55 °C ✓

MULTICAL® 603: IP 54 ✓

ULTRAFLOW® 44: IP 68 ✓

ULTRAFLOW® 54: IP 65 ✓

> 25 CM



2/2

Data +	HC-003-10	✓
Data +	HC-003-11	✓
M-Bus +	HC-003-20	✓
M-Bus +	HC-003-21	✓
M-Bus +	HC-003-22	✓

33



2xA	HC-993-10	✓
230 VAC supply	HC-993-11	✓
24 VAC/VDC	HC-993-12	✓
230/24 VDC AUX	HC-993-13	✓
24/24 VDC AUX	HC-993-14	✓

34

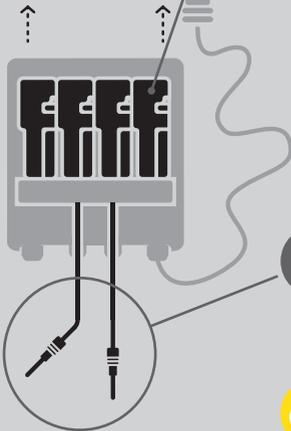


MULTICAL® 803-A - Pt100/Pt500	✓
x2 x4	

35

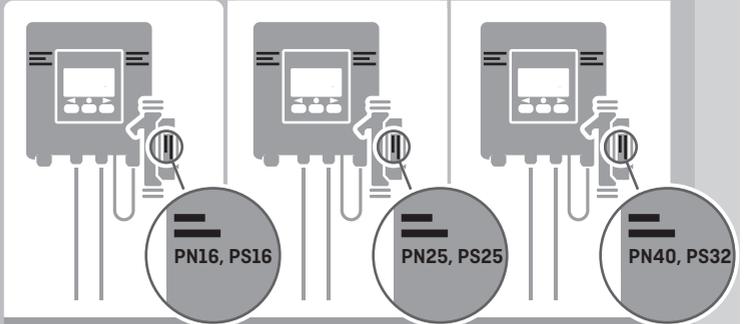


MULTICAL® 803-M - Pt100/Pt500	✓
x2 x4	



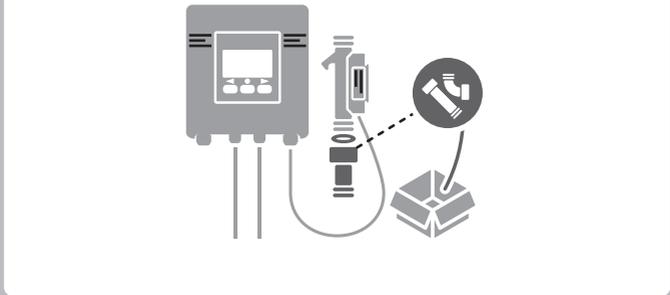


DN15 - DN125 ✓



PN16, PS16 ✓	PN16, PS16 < DN100 ✓	PN16, PS16 ✗
PN25, PS25 ✗	PN25, PS25 ✓	PN25, PS25 ✗
PN40, PS32 ✗	PN40, PS32 ✗	PN40, PS32 ✓

PN16, PS16 ✓	PN25, PS25 ✓	PN40, PS32 ✗
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DN20 ✓	DN25 / DN15 !	DN32 / DN10 ✗



ULTRAFLOW®

11 -		V2
9 +		
69		
11 -		V1
9 +		
10		

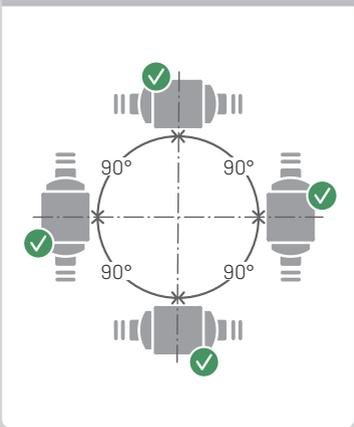
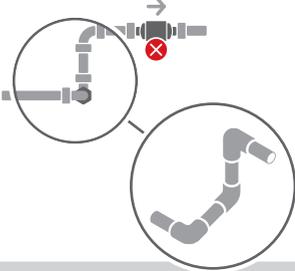
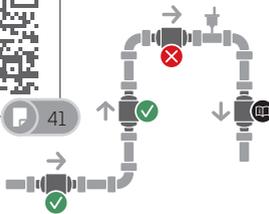


V1		11 -
		10
V2		11 -
		69

V1		11B -
		10B
V2		79B -
		69B



41



E3  qp 0.6...2.5 m³/h



E3  qp ≥ 3.5 m³/h

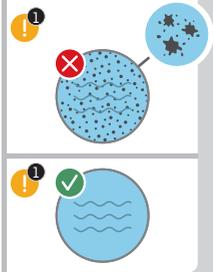
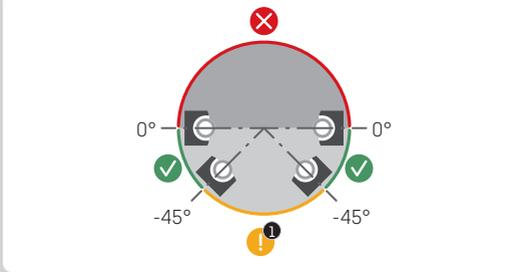


E3  qp ≥ 6.0 m³/h





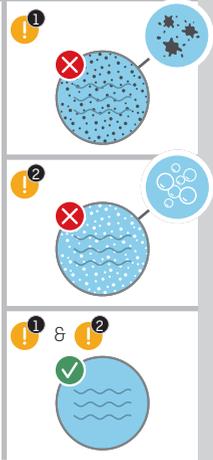
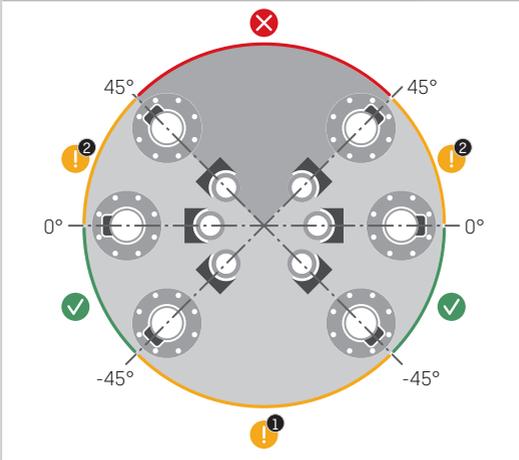
qp 0.6...2.5 m³/h



qp ≥ 3.5 m³/h

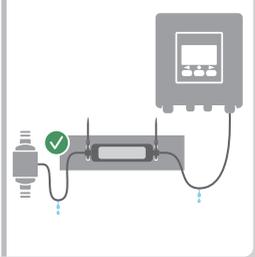
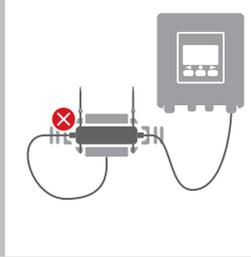
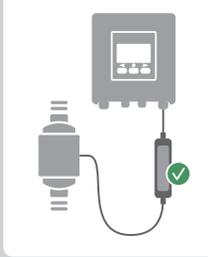


qp ≥ 6.0 m³/h





ULTRAFLOW® 44

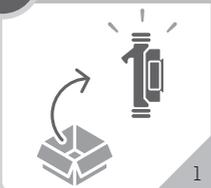
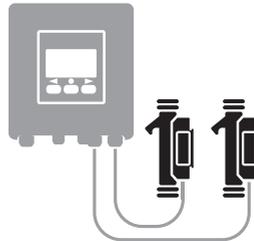


x2 =

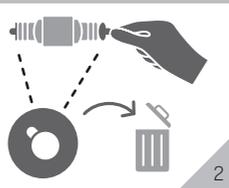
+ V2



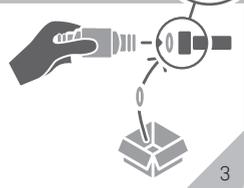
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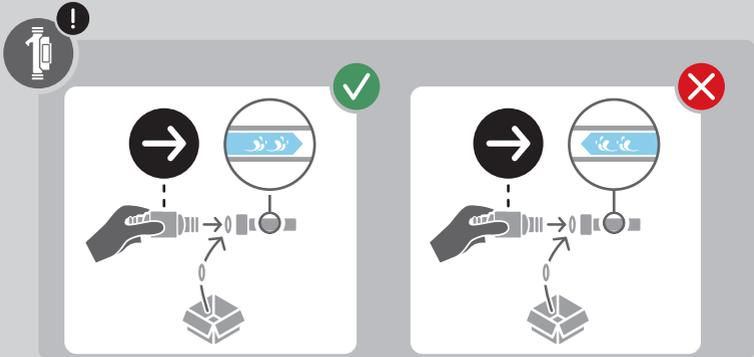
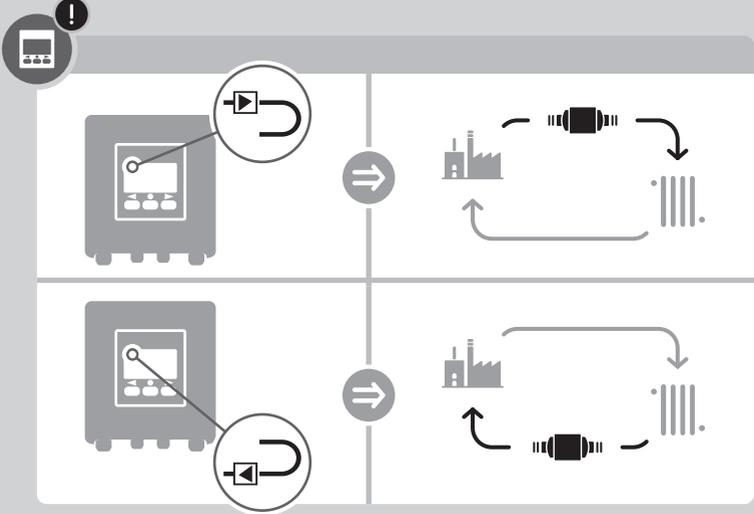
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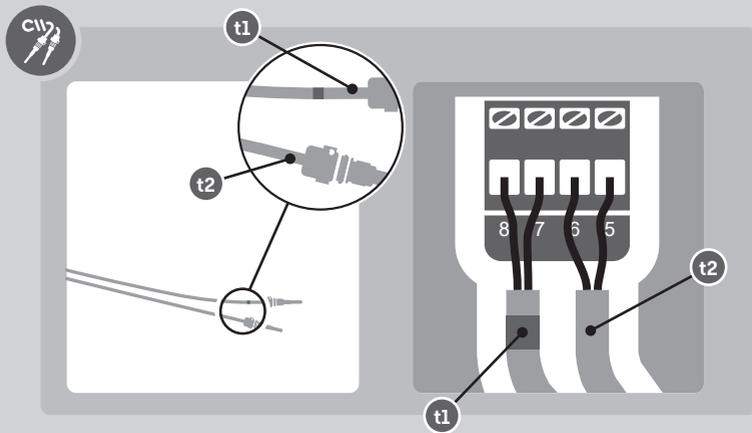
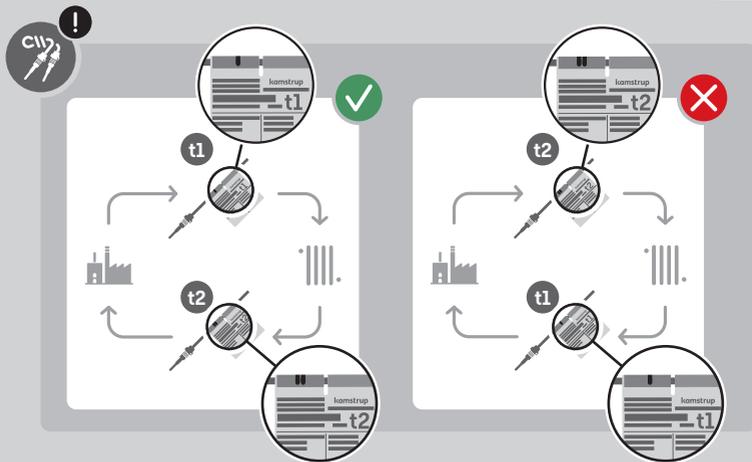


2



3

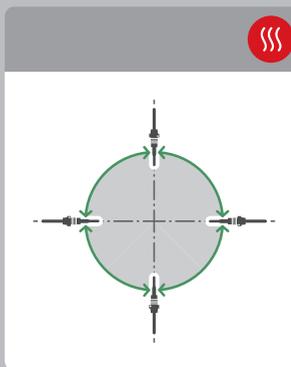
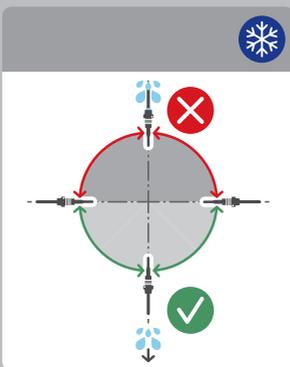
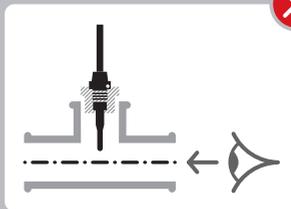
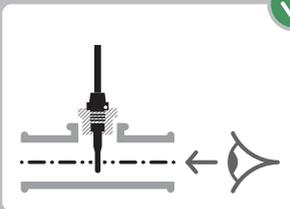






[x1] t1 [x2] t2 [x0] t3

	t1	t2	t3



PN16



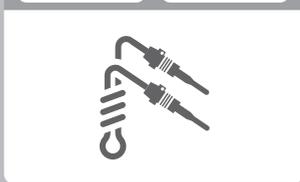
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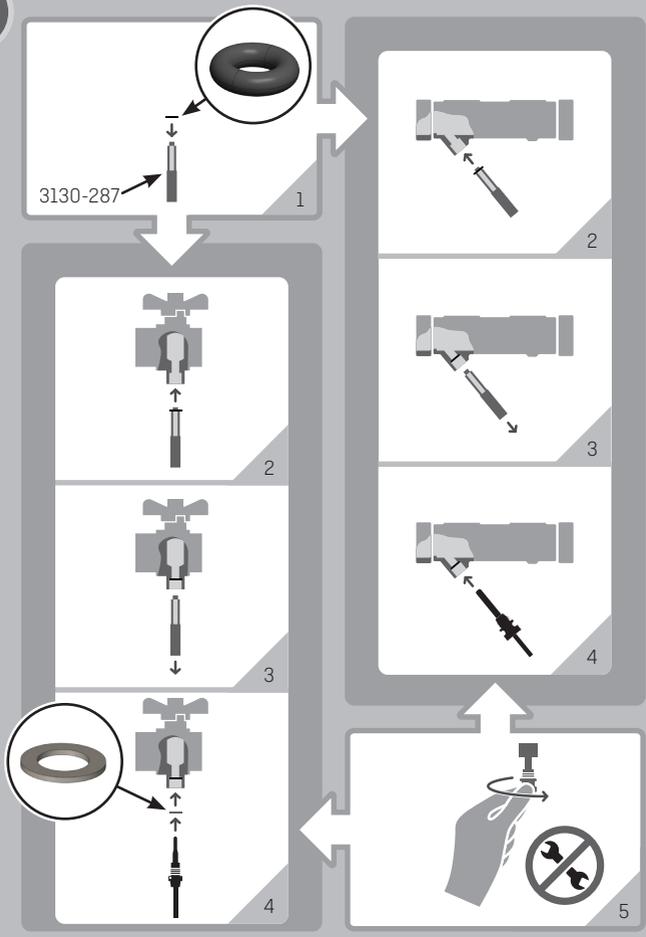


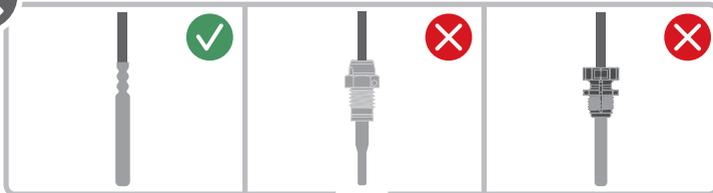
PN16



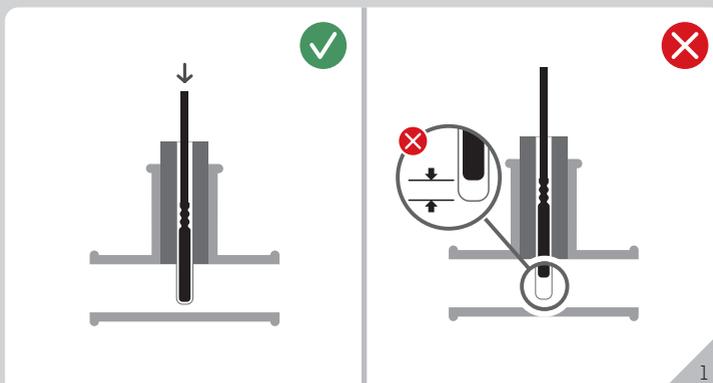
PN25



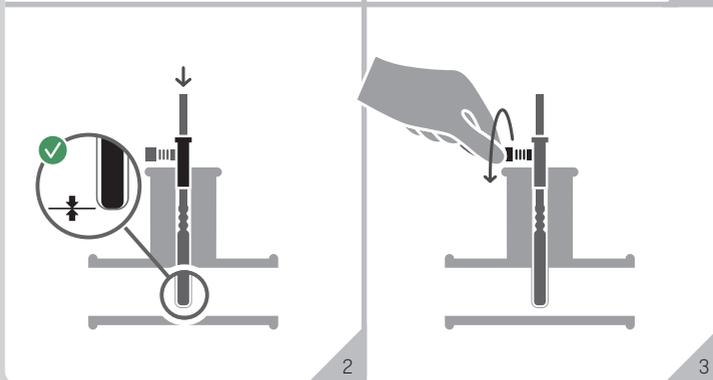




4/8

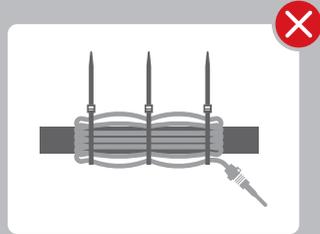
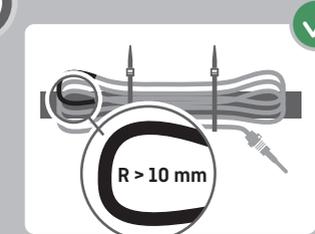
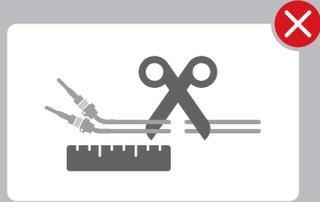
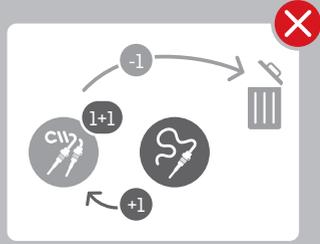
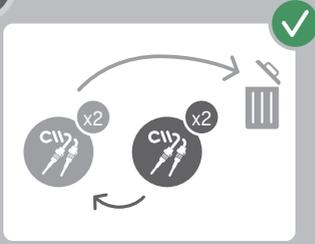


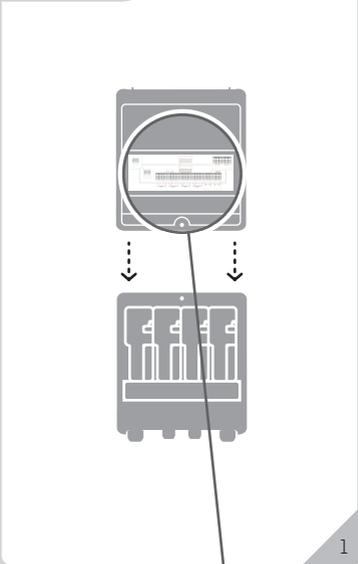
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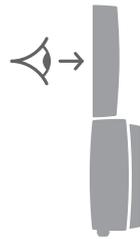
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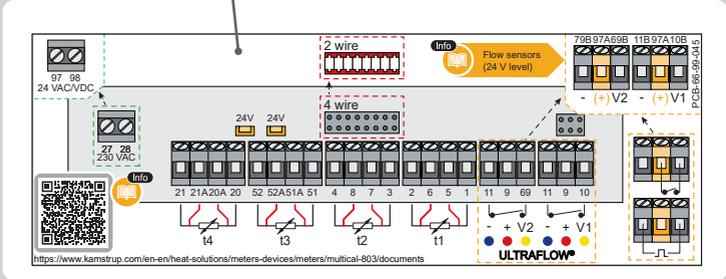


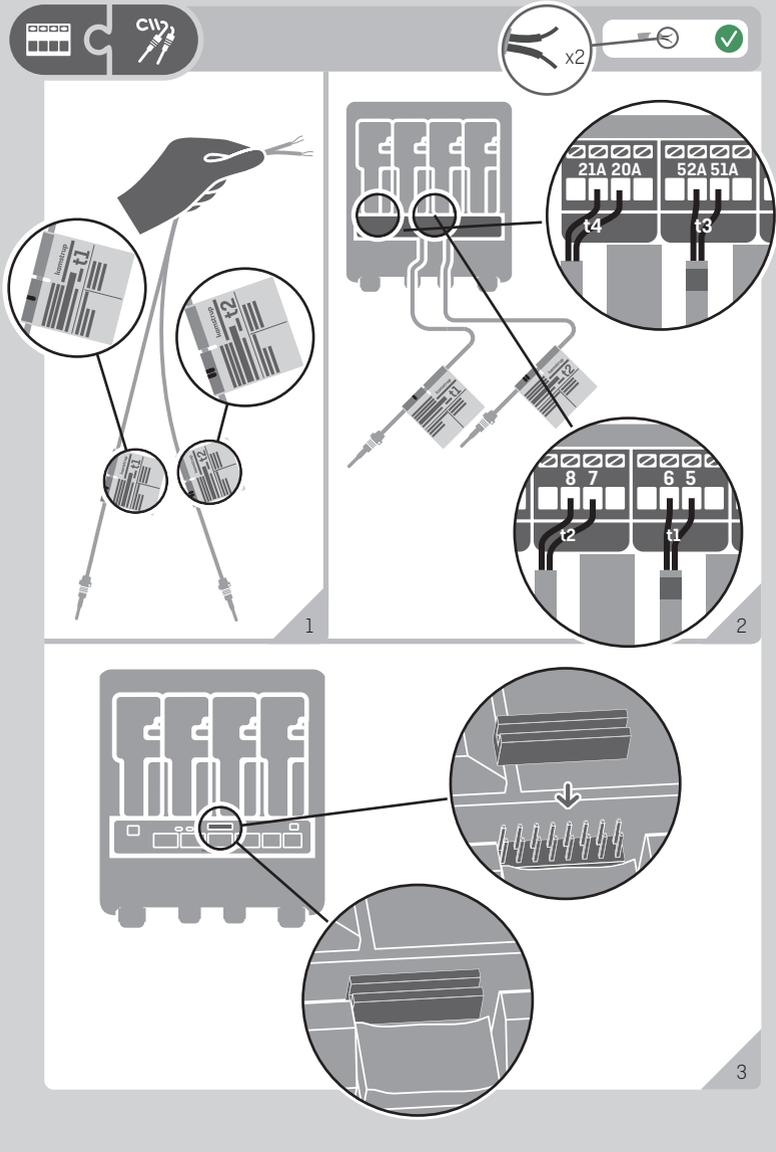


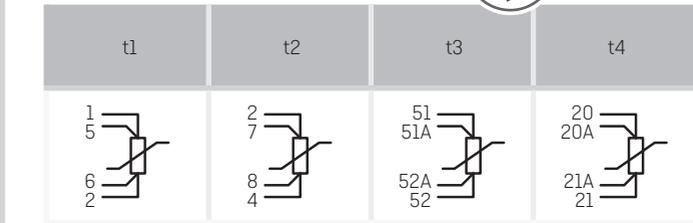
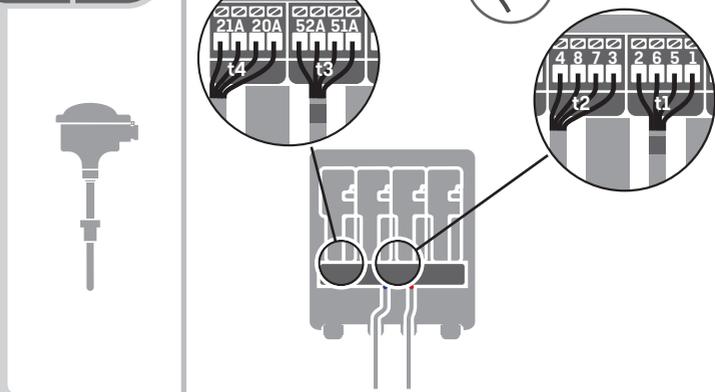
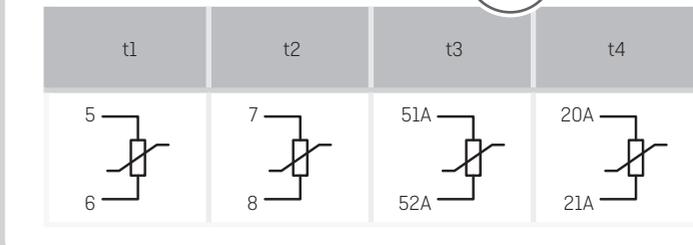
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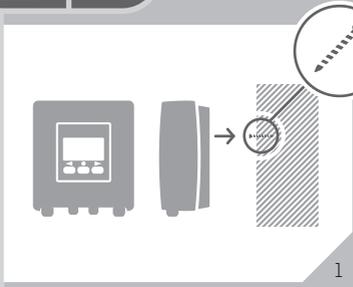


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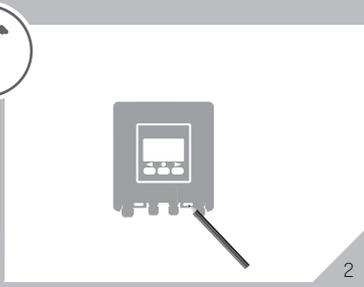




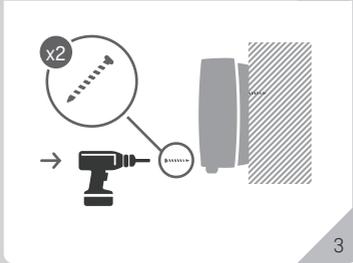




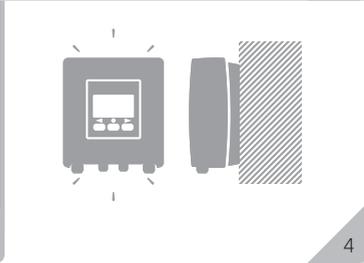
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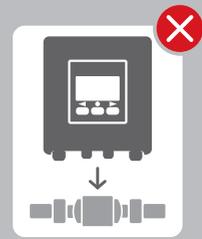
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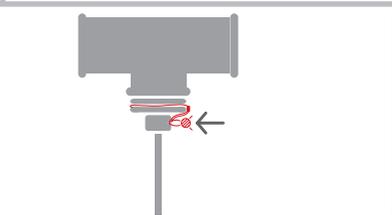
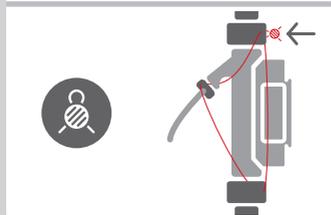
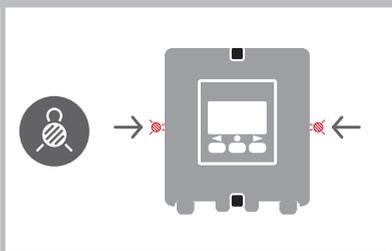
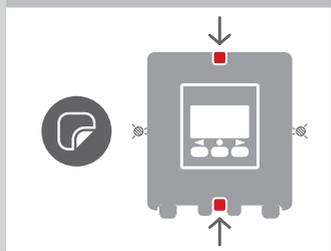
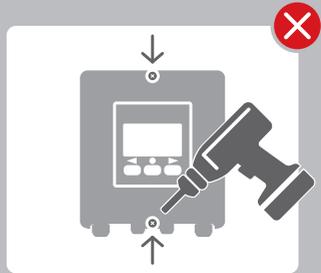
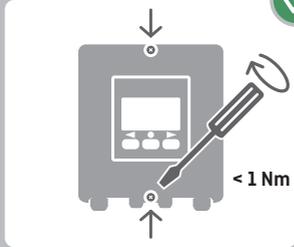


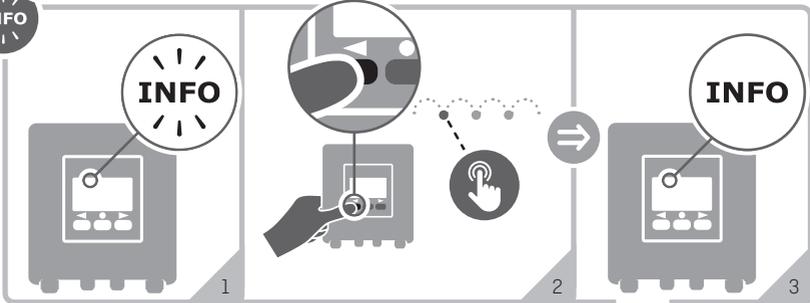
3



4







1/5

	1	2	3	4	5	6	7	8
Info	t1	t2	0	V1	0	In-A	In-B	
1								
2								
9								



INFO

Info	t1	t2	0	V1	0	In-A	In-B	
	1							t1 > 185 °C
		1						t2 > 185 °C
			1					t3/t4 > 185 °C
	2							t1 < 0 °C
		2						t2 < 0 °C
			2					t3/t4 < 0 °C
	9	9						$\Delta t (t1-t2) = X$



Info	t1	t2	0	V1	0	In-A	In-B
				1			
				1			
				2			
				2			
				3			
				3			
				4			



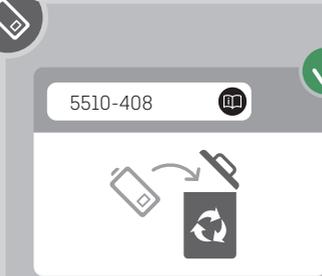
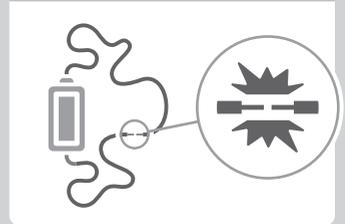
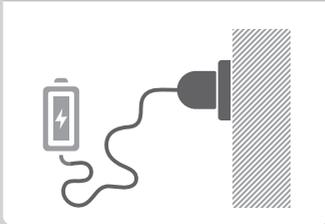
INFO

Info	t1	t2	0	V1	0	In-A	In-B
				4			
				6			V1 > qs
				6			V2 > qs
				7			
				7			
				8			
				8			



The screenshot shows a control panel with a digital display at the top displaying '020000000'. Below the display is a table with 8 columns labeled 1 through 8. Lines connect these columns to the table below. The table has columns labeled 'Info', 't1', 't2', '0', 'V1', '0', 'In-A', and 'In-B'. The table contains data for two sensor pairs, A and B, with rows for individual sensors and their comparison.

	1	2	3	4	5	6	7	8
Info	t1	t2	0	V1	0	In-A	In-B	
						7		A2:
						8		A1:
						9		A1/A2:
						7		B2:
						8		B1:
						9		B1/B2:





2/3

230 VAC / 50-60 Hz



230 VAC / 50-60 Hz / 1 W

230 VAC / 50-60 Hz / 7 W

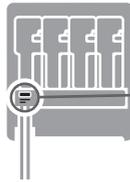
24 VAC / 50-60 Hz



24 VAC/VDC / 50-60 Hz / 1 W

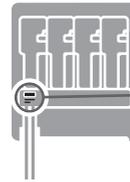
24 VAC/VDC / 50-60 Hz / 7 W

230 VAC



230 VAC

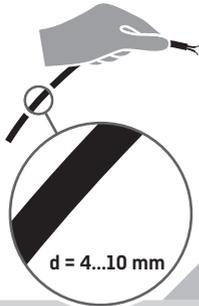
24 VAC/VDC



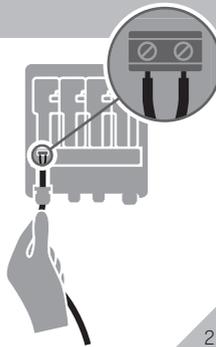
24 VAC/VDC



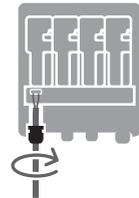
d = 4...10 mm



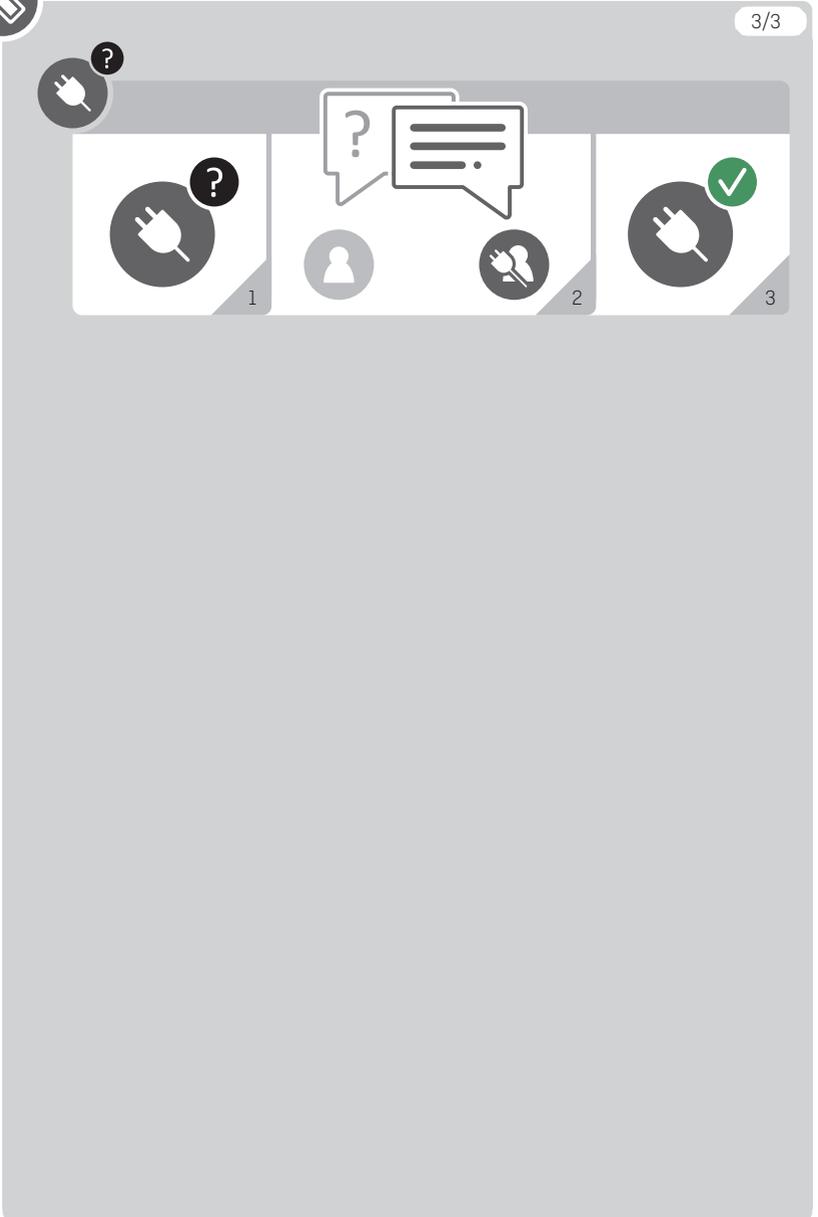
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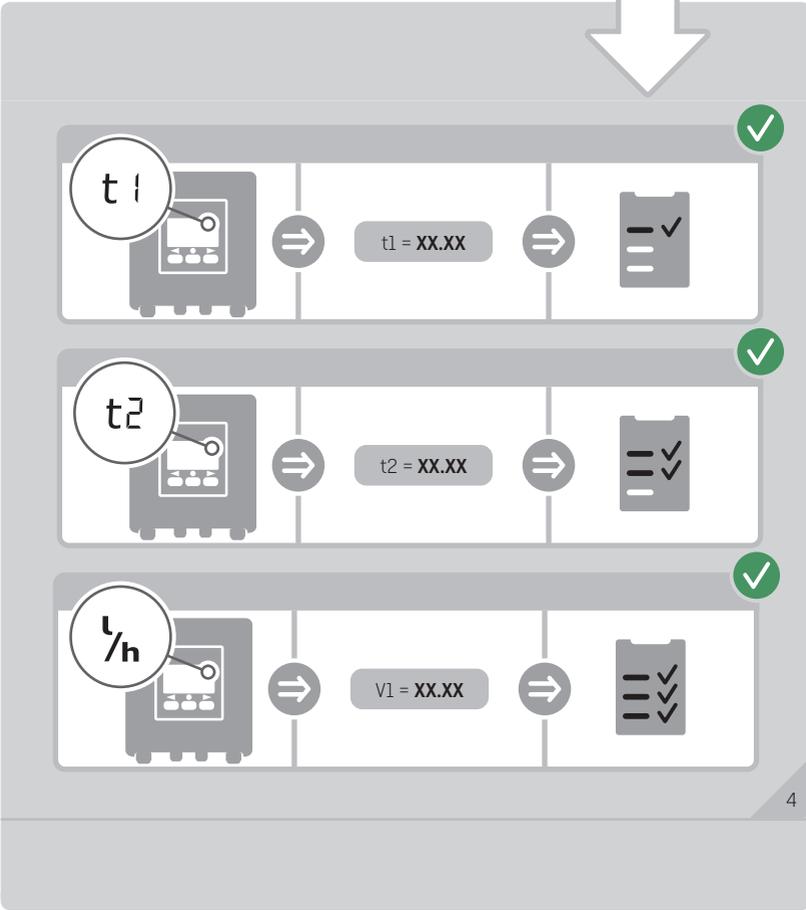
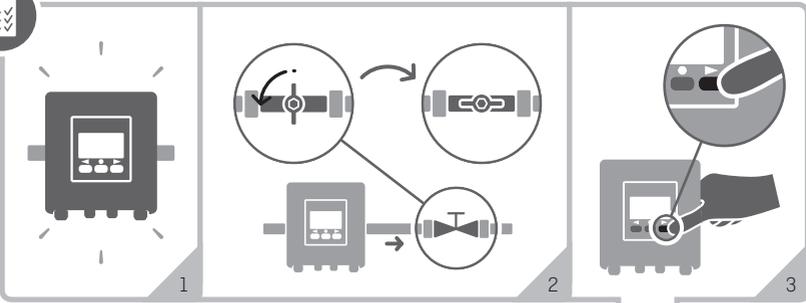


2



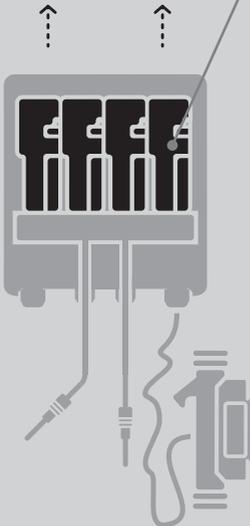
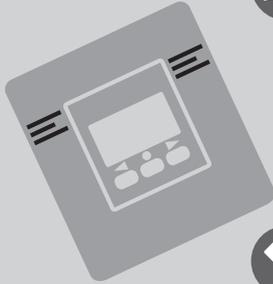
3







<https://www.kamstrup.com/en-en/heat-solutions/meters-devices/meters/multical-803> ✓



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	✓
Analog	HC-003-41	✓
PQT+	HC-003-43	✓
Radio +	HC-003-50	✓
Radio GDPR +	HC-003-51	✓
NB-IoT +	HC-003-56	✓
LON TP/FT-10	HC-003-60	✓
BACnet +	HC-003-66	✓
Modbus RTU +	HC-003-67	✓
2G/4G Network	HC-003-80	✓
BACnet IP +	HC-003-81	✓
Modbus +	HC-003-82	✓
READy TCP/IP	HC-003-83	✓
Kamstrup RF HP	HC-003-84	✓
Kamstrup RF HP GDPR	HC-003-85	✓

= In-A / In-B

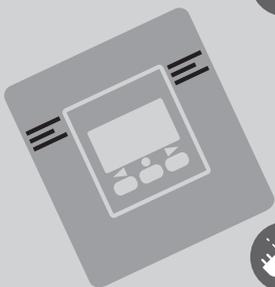
= Out-C / Out-D

= In 1 / In 2

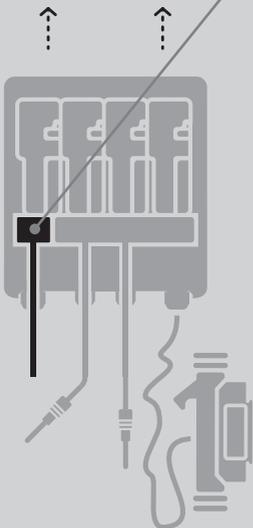
= Out 1 / Out 2



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

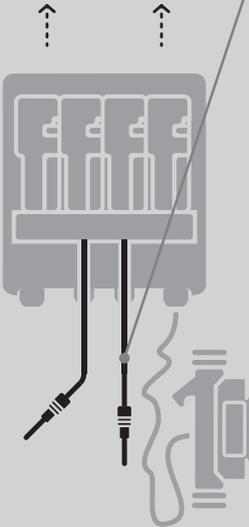


2xA	HC-993-10	✓
1 x 230 VAC	HC-993-11	✓
1 x 24 VAC/VDC	HC-993-12	✓
2 x 230 VAC	HC-993-13	✓
2 x 24 VAC/VDC	HC-993-14	✓





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



2 x Pt500 ✓

DS 27,5 mm L = 1,5 - 3,0 m

DS 38,0 mm L = 1,5 - 3,0 m

PL ø5,8 mm L = 1,5 - 10,0 m

2 x Pt100 ✓

DS 27,5 mm L = 2,0 m

4 x Pt100/Pt500 ✓

PL ø6,0 mm L = 105 - 230 mm

PL ø5,8 mm L = 65 - 180 mm



0009675 MWh TA3

0011736 MWh TA2

0005387 kWh BI

0035937 kWh A1

36.7 kW

544 l/h

0004654 MWh TA4

00000000

INFO

1234.1 P5

1-2-3-4 1

500 Pt

Pt100/Pt500

10000 %

1.5 qp

qp=1.5

0039384 MWh EI

0017447 MWh E3

0078133 m³

34.39 k t1-t2

38.76 °C t2

72.13 °C t1

001716 h

h



DDD = 310/610

https://guides.kamstrup.com/userguides/gb_mc803.htm



MULTICAL® 803 & ULTRAFLOW®

