kamstrup

MULTICAL® 403



Kamstrup A/S · Industrivej 28, Stilling · DK-8660 Skanderborg · T: 89 93 10 00 · info@kamstrup.dk · kamstrup.com



> 60 °C



230 VAC



16/25 bar

 04

 05

 07

 12

 19

 22

 24

 27

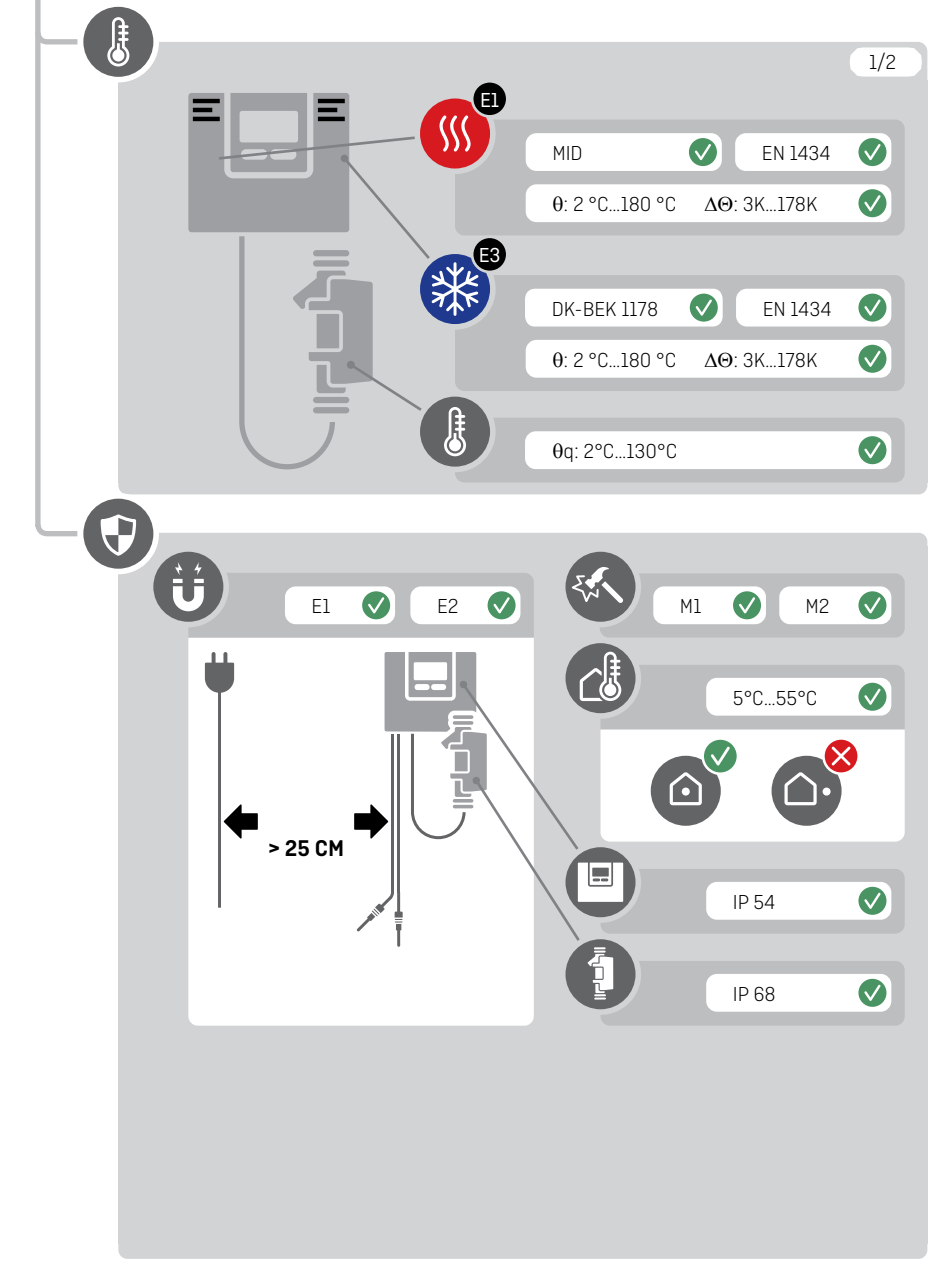
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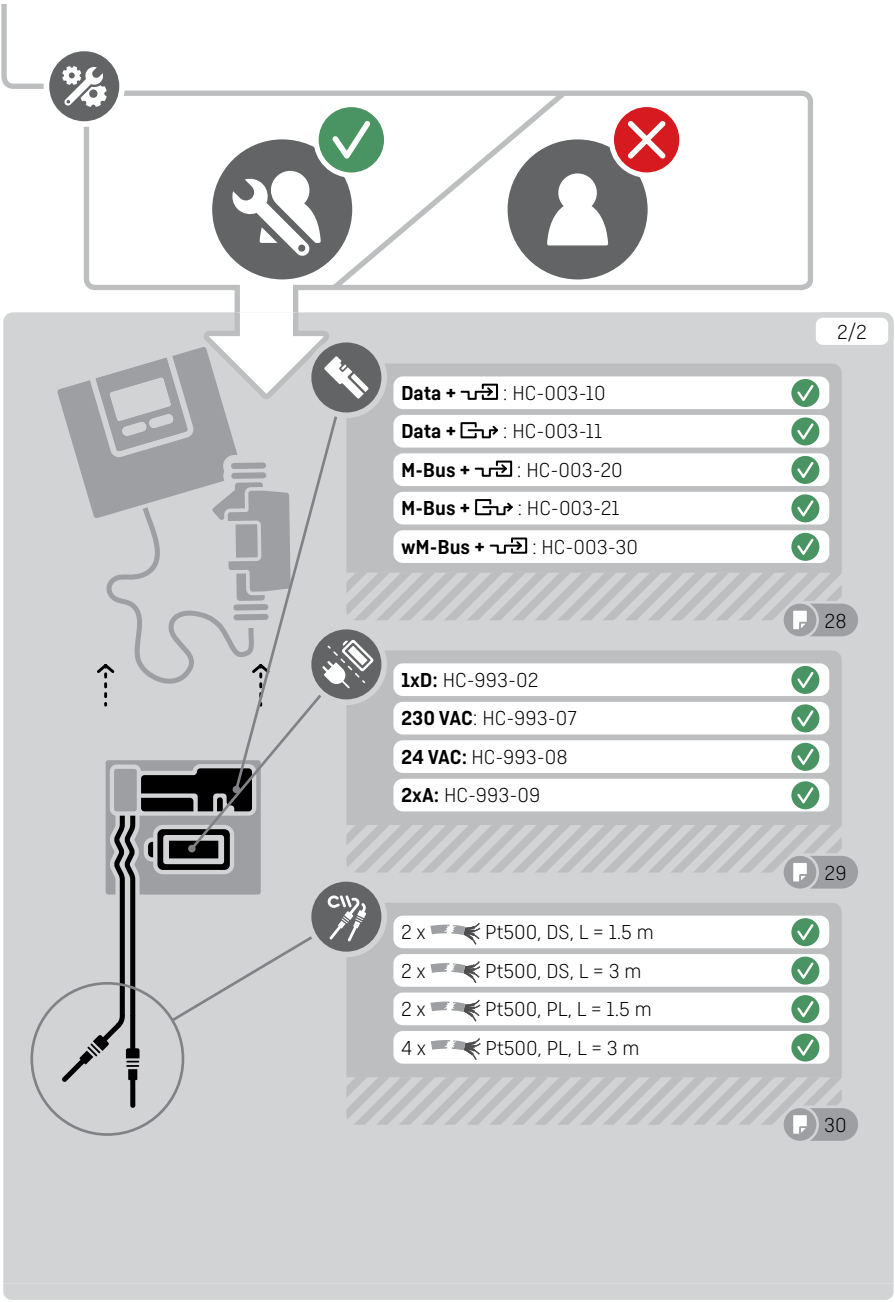
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https://guides.kamstrup.com/userguides/gb_mc403.htm

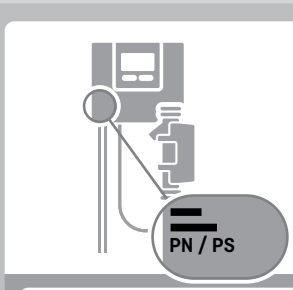
https://www.kamstrup.com/en-en/heat-solutions/meters-devices/meters/multical-403/documents

https://www.kamstrup.com/


1/2
E1
MID
EN 1434
θ: 2 °C...180 °C
ΔΘ: 3K...178K
E3
DK-BEK 1178
EN 1434
θ: 2 °C...180 °C
ΔΘ: 3K...178K
θq: 2°C...130°C
E1
E2
> 25 CM
M1
M2
5°C...55°C
IP 54
IP 68


2/2
Data + : HC-003-10
Data + : HC-003-11
M-Bus + : HC-003-20
M-Bus + : HC-003-21
wM-Bus + : HC-003-30
28
1xD: HC-993-02
230 VAC: HC-993-07
24 VAC: HC-993-08
2xA: HC-993-09
29
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
30

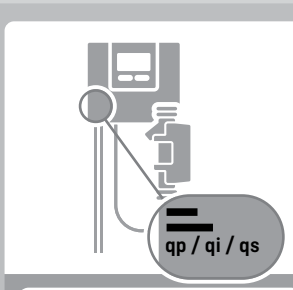
1/5



PN16, PS16

PN25, PS25

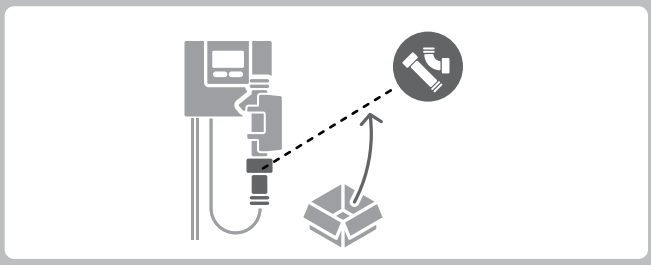
PN16/PN25, PS25



qp: XX m³/h

qi: XX l/h

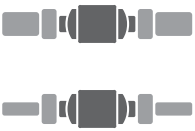
qs: XX m³/h



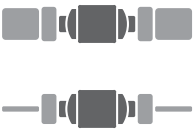
DN20



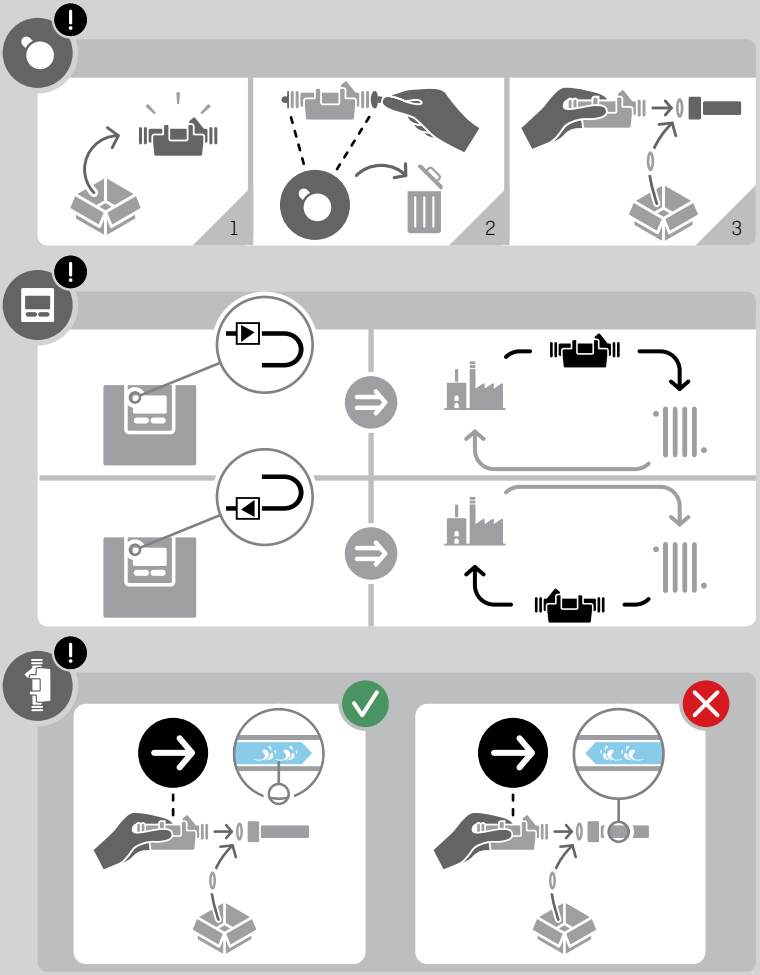
DN25 / DN15

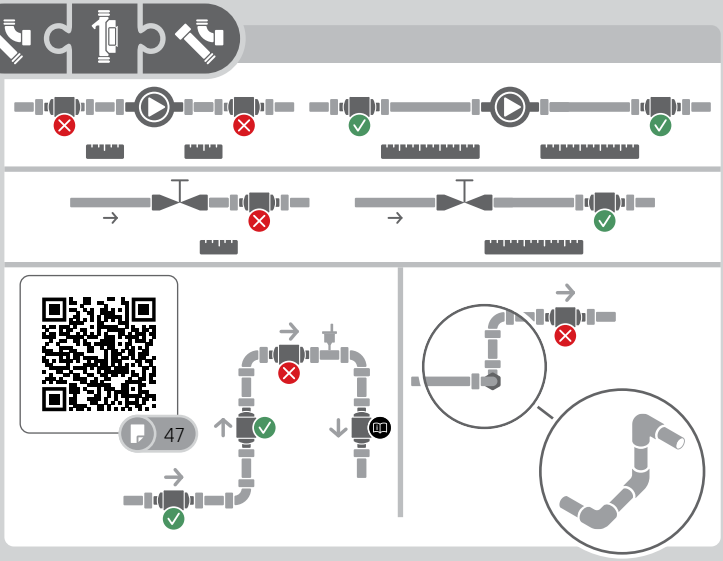


DN32 / DN10

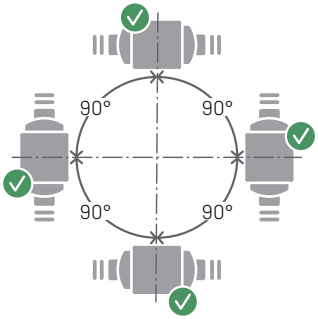


2/5




47

4/5



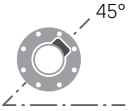
E3 qp 0.6...2.5 m³/h



E3 qp ≥ 3.5 m³/h

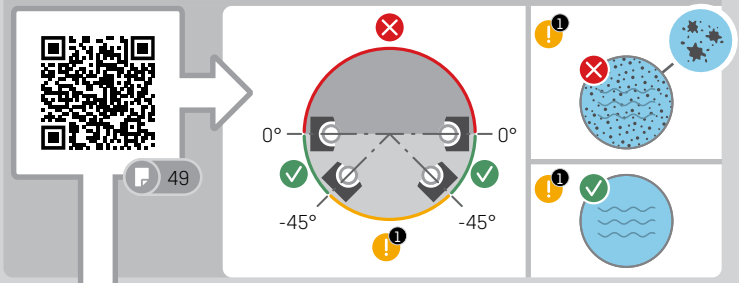


E3 qp ≥ 6.0 m³/h



5/5

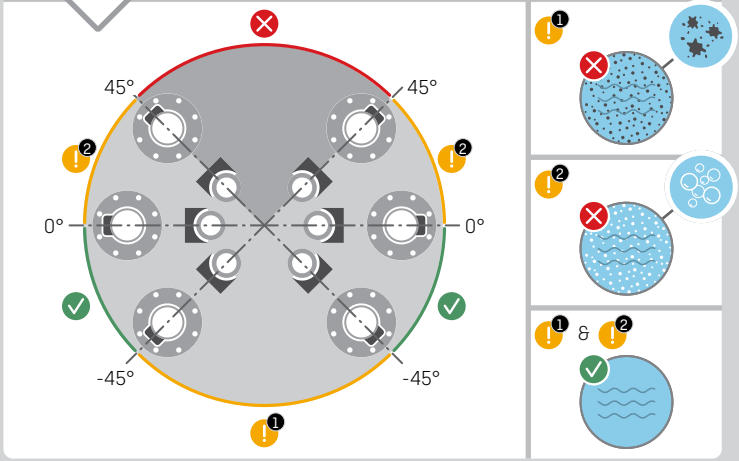
qp 0.6...2.5 m³/h



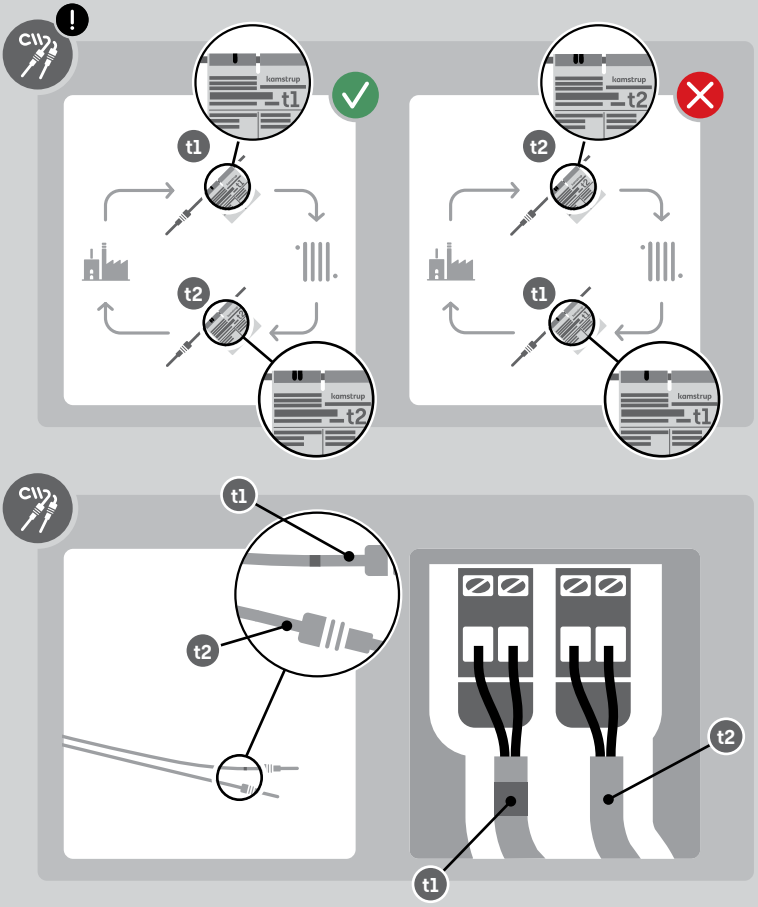
49

qp ≥ 3.5 m³/h

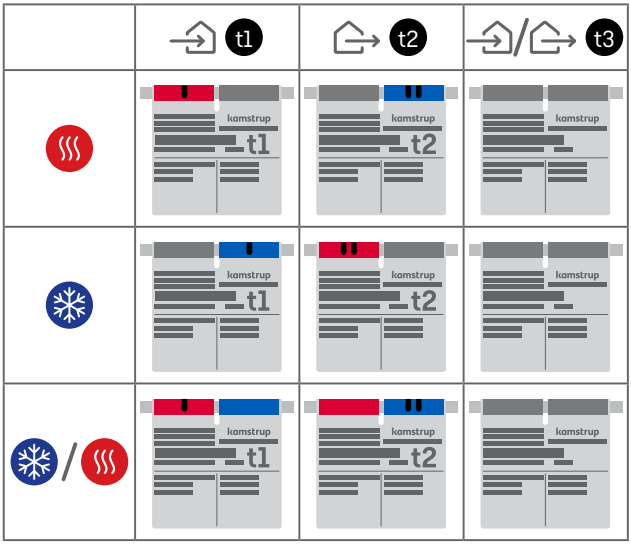
qp ≥ 6.0 m³/h



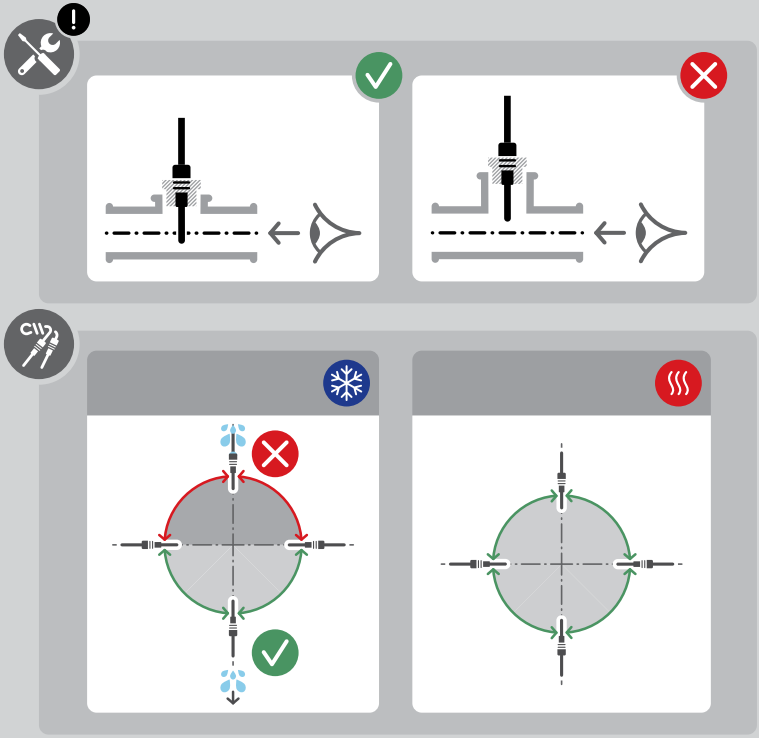
1/7



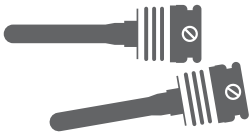
[x1] t1 [x2] t2 [x0] t3



3/7



PN16 PN25

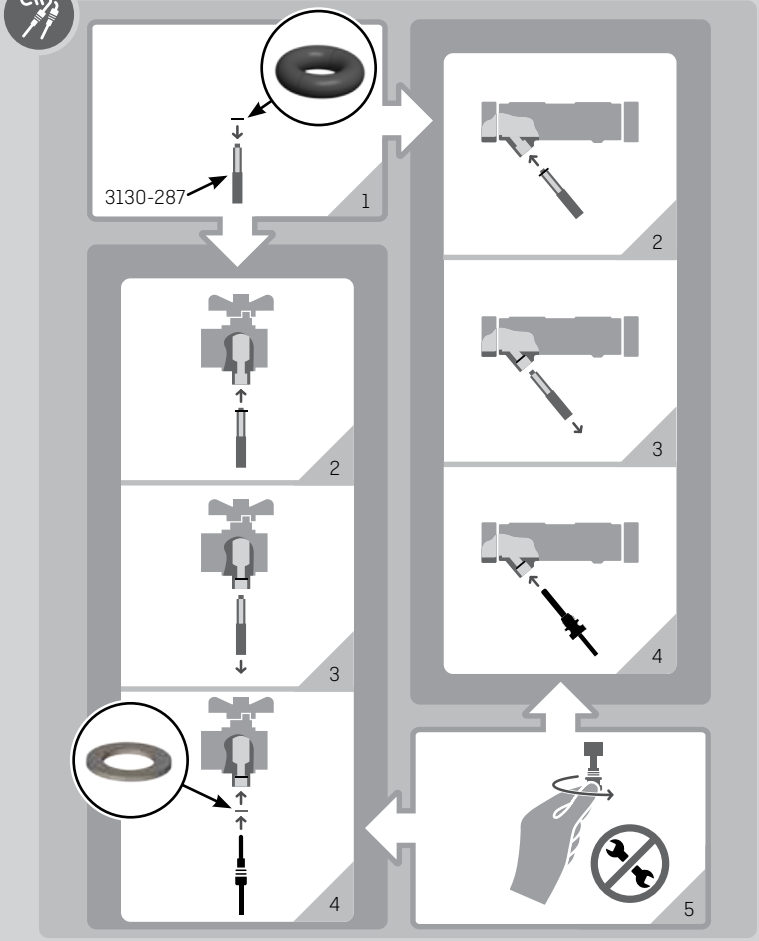


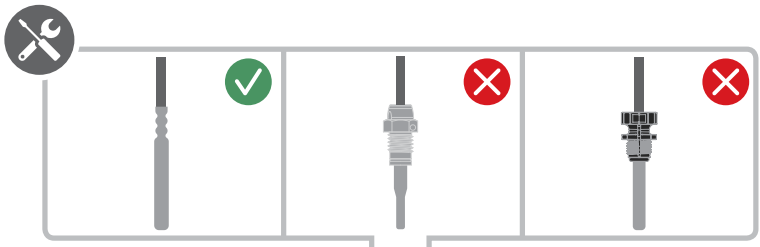
PN16 PN25

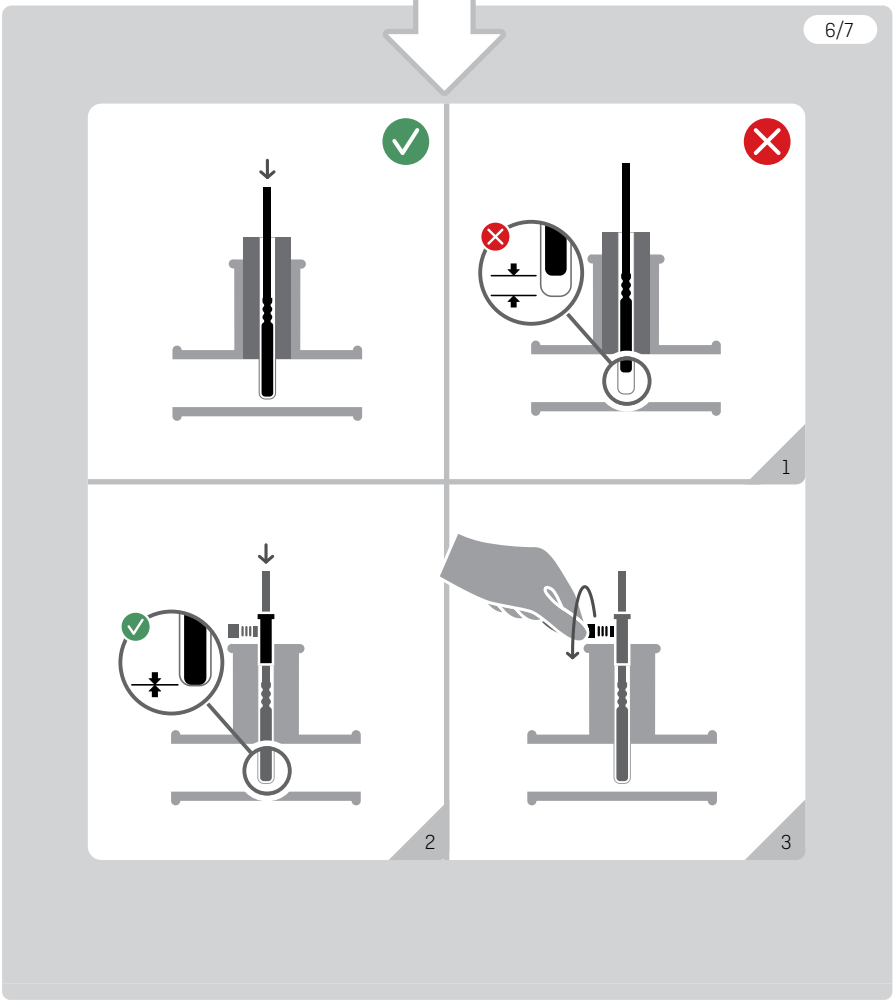


q_p	DN	G	DS 27.5	DS 38	PL Ø5.8
0.6-1.5	15	G¾B	X		
0.6-1.5	20	G1B	X		
3.5-6	25	G5/4B	X		
10	40	G2B		X	
15	50	-			X

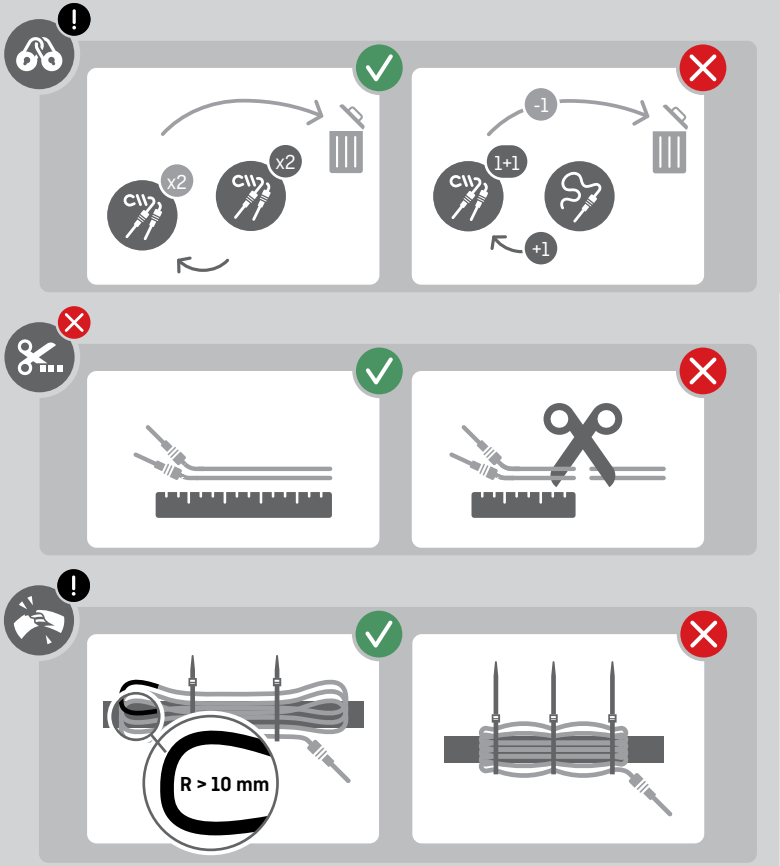
5/7

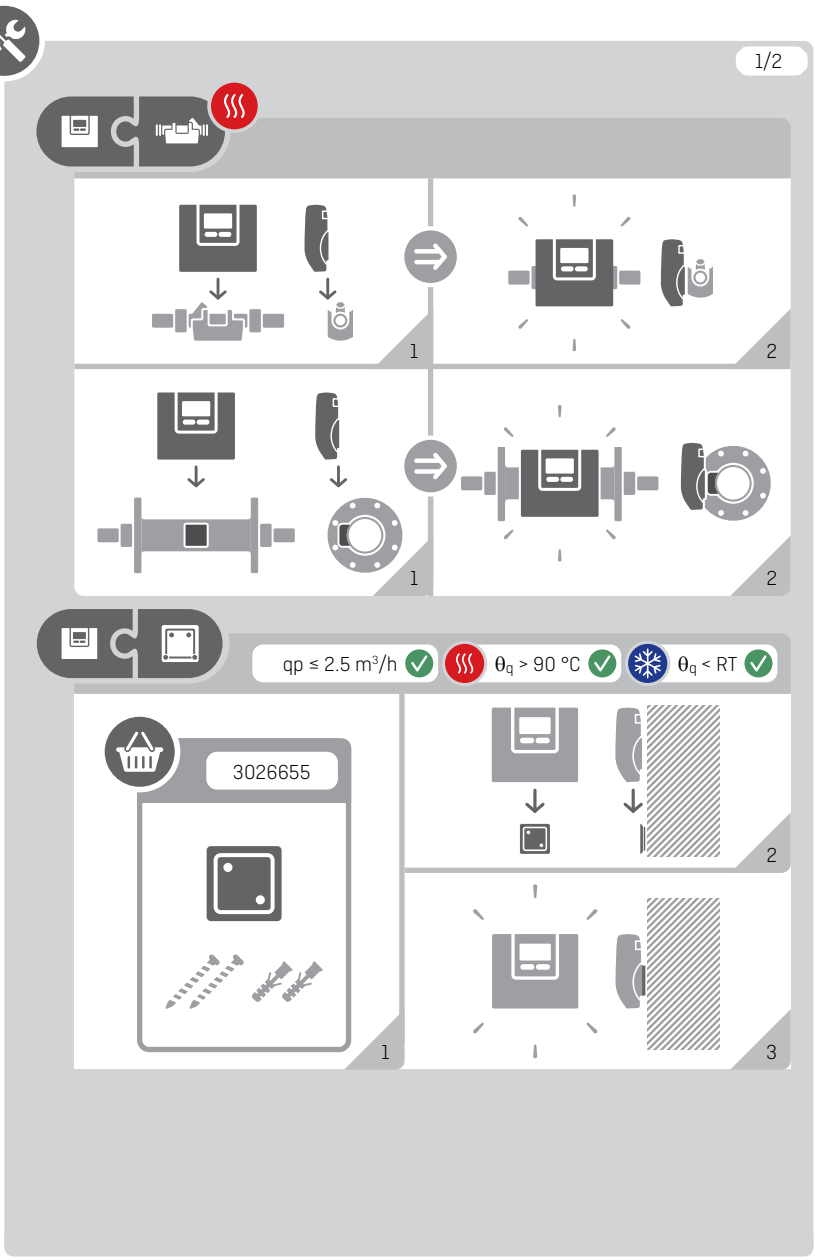





6/7
1
2
3

7/7



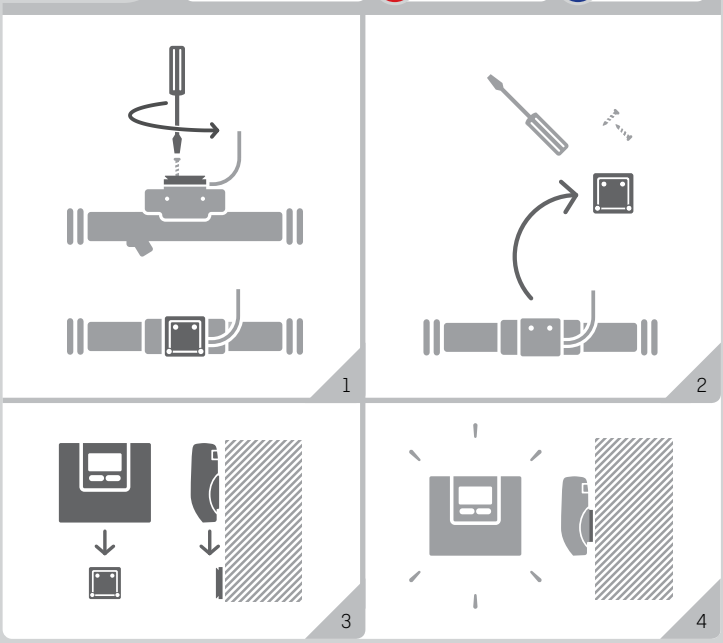

1/2
1
2
1
2
qp ≤ 2.5 m³/h
θq > 90 °C
θq < RT
3026655
1
2
3

2/2

qp > 2.5 m³/h

θ_q > 90 °C

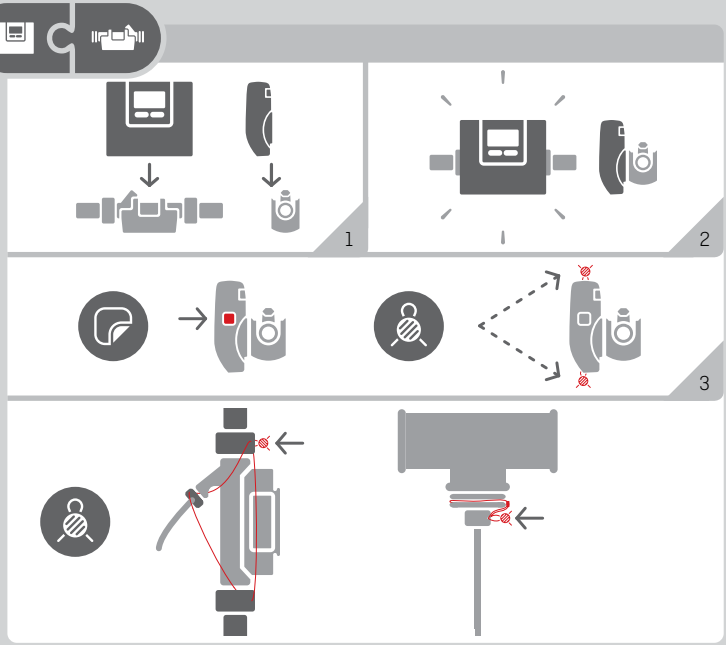
θ_q < RT

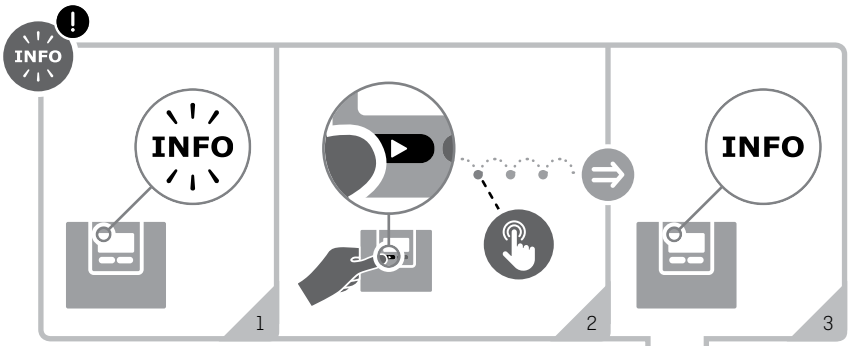


E3

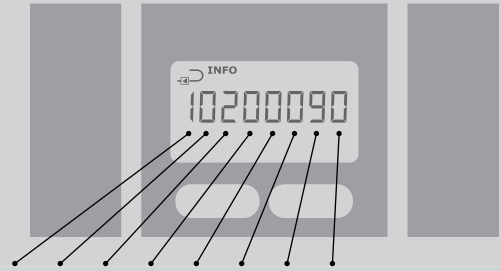


3/2





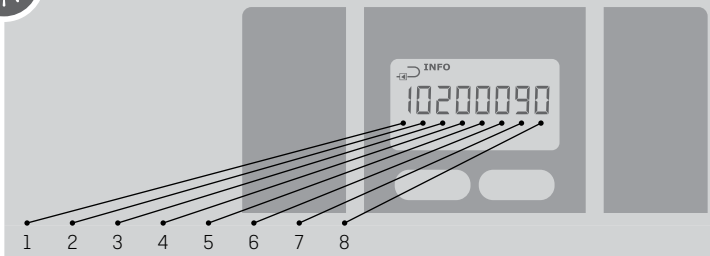
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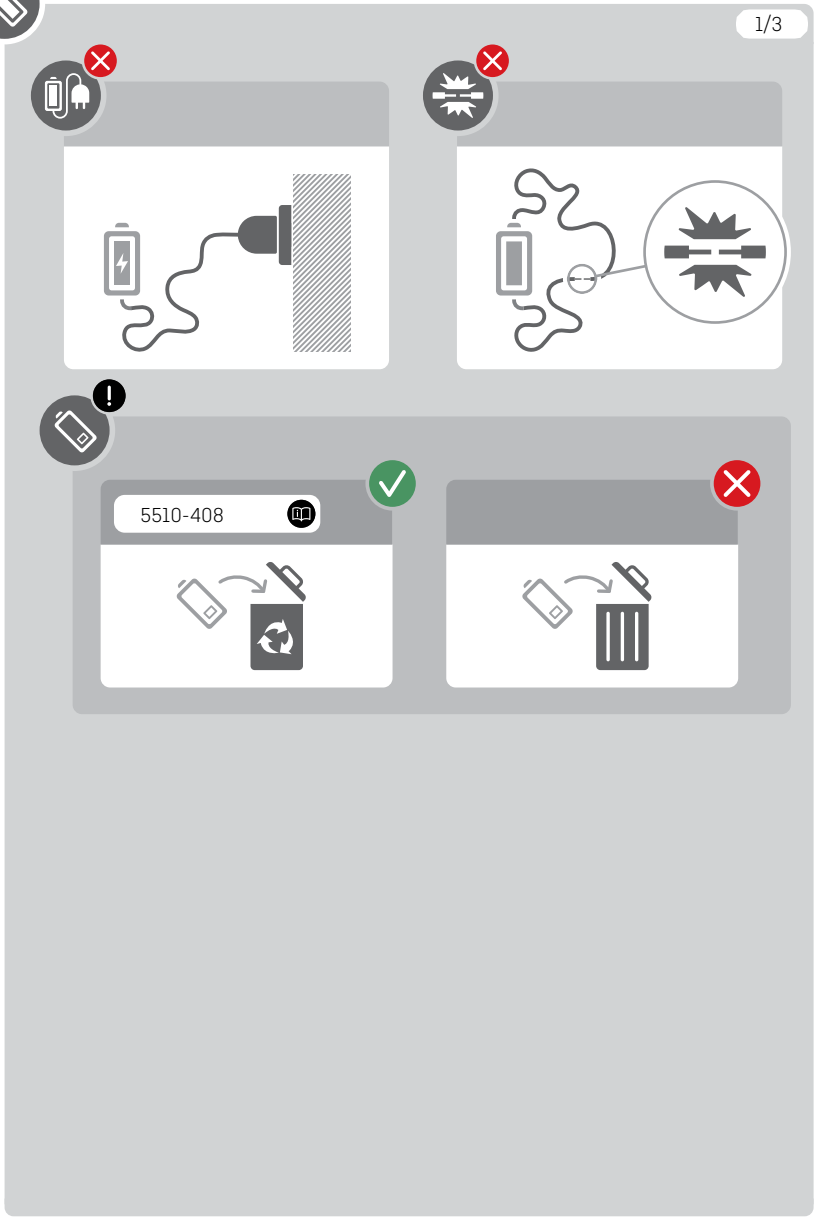
1	2	3	4	5	6	7	8	
Info	**t1**	**t2**	**0**	**V1**	**0**	**In-A**	**In-B**	
1								
2								
9								
	1							**t1** > 185 °C
		1						**t2** > 185 °C

INFO

2/2

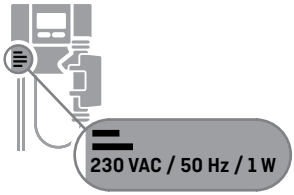


Info	t1	t2	0	V1	0	In-A	In-B	
	2							**t1** < 0 °C
		2						**t2** < 0 °C
	9	9						Δt (**t1**-**t2**) =
				3				**V1**:
				4				**V1**:
				6				**V1** > qs
						8		**A**:
						9		**A**:
							8	**B**:
							9	**B**:

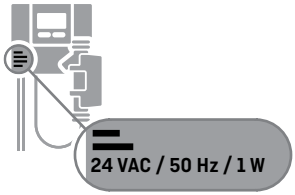

1/3
5510-408

2/3

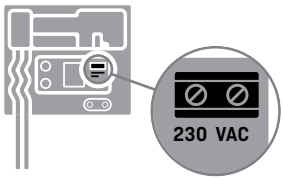
230 VAC / 50 Hz / 1 W



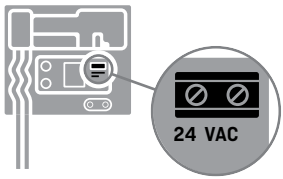
24 VAC / 50 Hz / 1 W



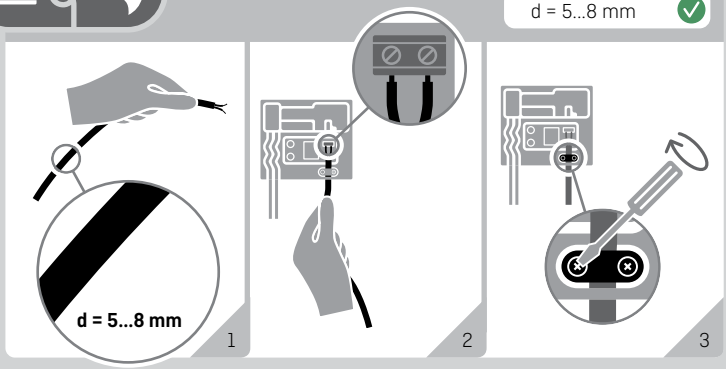
230 VAC



24 VAC

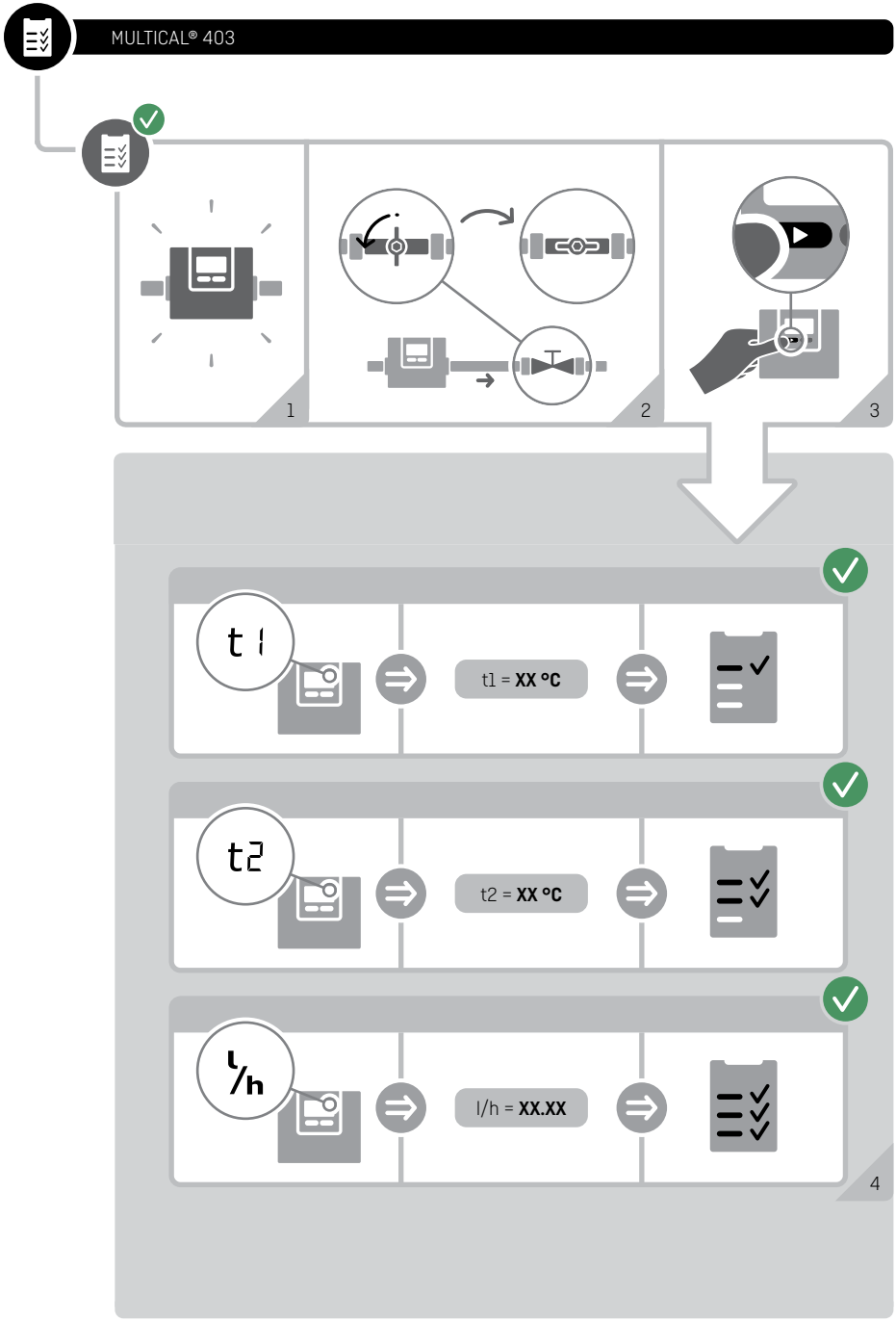


d = 5...8 mm

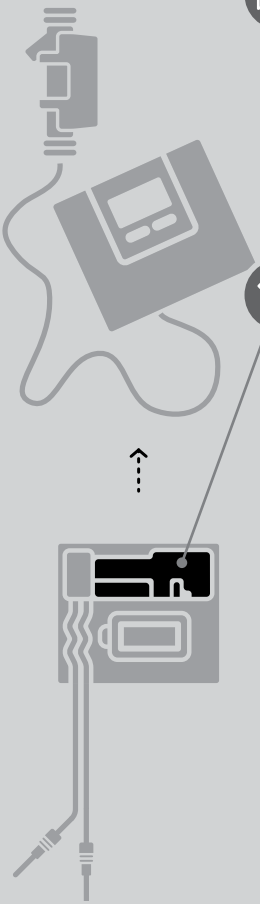


3/3




1
2
3
t1
t1 = XX °C
t2
t2 = XX °C
l/h
l/h = XX.XX
4

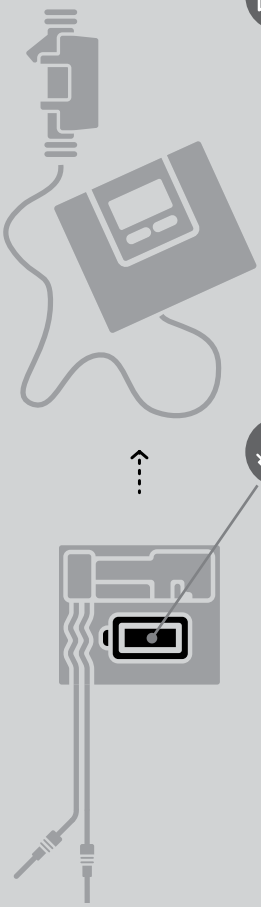
https://www.kamstrup.com/en-en/heat-solutions/meters-devices/meters/multical-403



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**

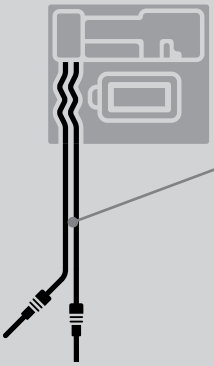
https://www.kamstrup.com/en-en/heat-solutions/meters-devices/accessories



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

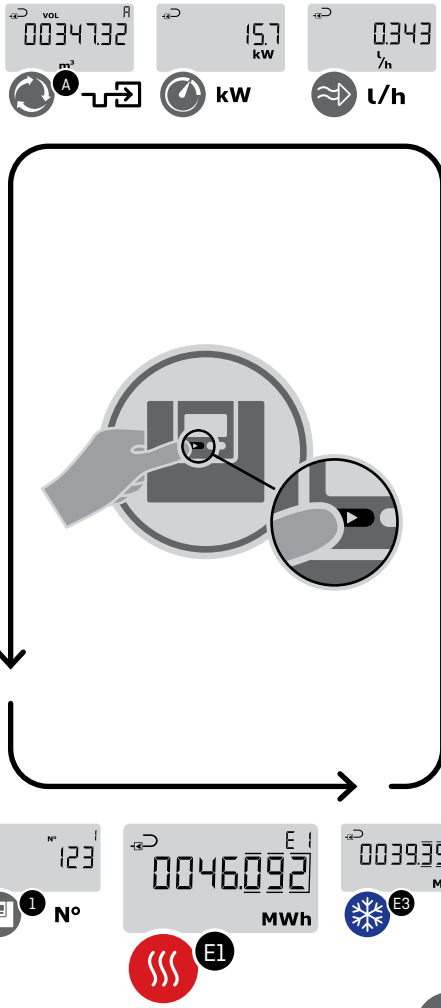




- 2 x Pt500, DS, L = 1.5 m
- 2 x Pt500, DS, L = 3 m
- 2 x Pt500, PL, L = 1.5 m
- 4 x Pt500, PL, L = 3 m

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DDD = 310/610

https://guides.kamstrup.com/userguides/gb_mc403.htm

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