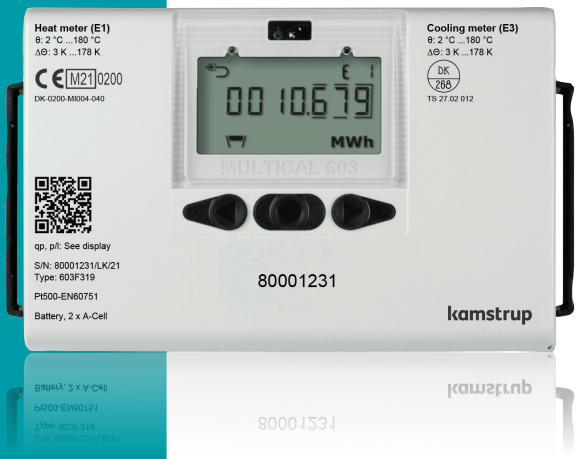
kamstrup

MULTICAL® 603 & ULTRAFLOW®



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

> 60 °C

230 VAC

16/25/40 bar

04
05
07
13
20
22
27
30
31
36

https://guides.kamstrup.com/userguides/gb_mc603.htm

https://www.kamstrup.com/en-en/heat-solutions/meters-devices/meters/multical-603/documents

https://www.kamstrup.com/

1/2

E1

MID

EN 1434

θ: 2 °C...180 °C ΔΘ: 3 K...178 K

E3

DK-BEK 1178

EN 1434

θ: 2 °C...180 °C ΔΘ: 3 K...178 K

E1 E3

EN 1434

θ: -40 °C...140 °C ΔΘ: 3 K...178 K

ULTRAFLOW®

θq: 2 °C...130 °C

θq: 15 °C...130 °C

E1

E2

> 25 CM

M1

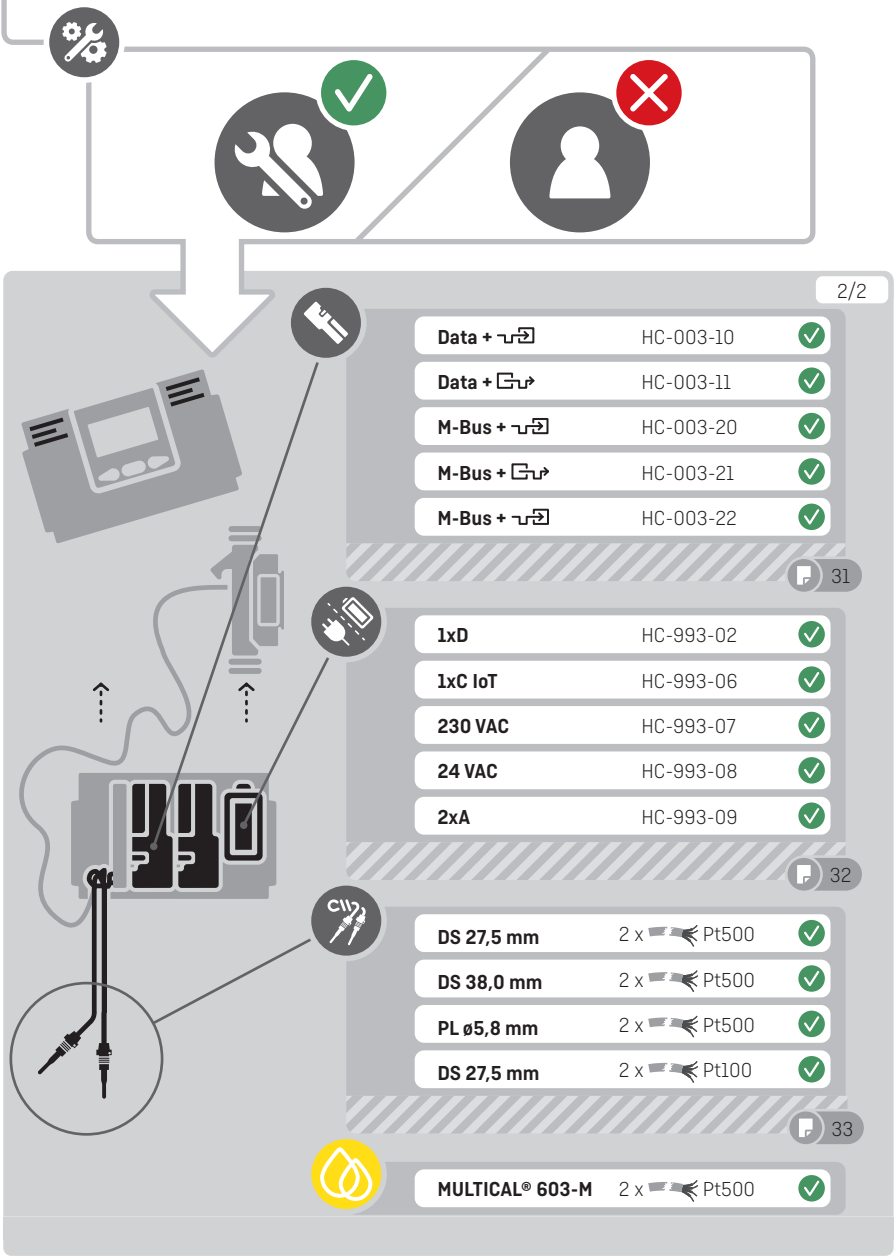
M2

5 °C...55 °C

MULTICAL® 603: IP 54

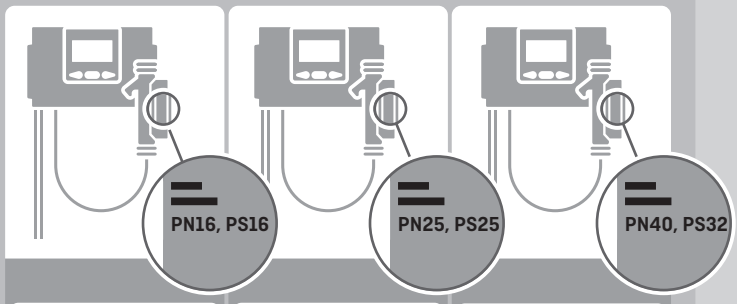
ULTRAFLOW® 44: IP 68

ULTRAFLOW® 54: IP 65


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
31
1xD HC-993-02
1xC IoT HC-993-06
230 VAC HC-993-07
24 VAC HC-993-08
2xA HC-993-09
32
DS 27,5 mm 2 x Pt500
DS 38,0 mm 2 x Pt500
PL ø5,8 mm 2 x Pt500
DS 27,5 mm 2 x Pt100
33
MULTICAL® 603-M 2 x Pt500

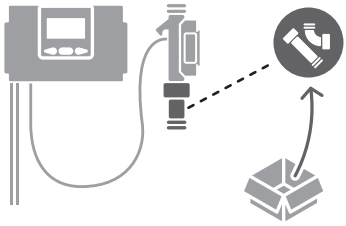
1/6

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

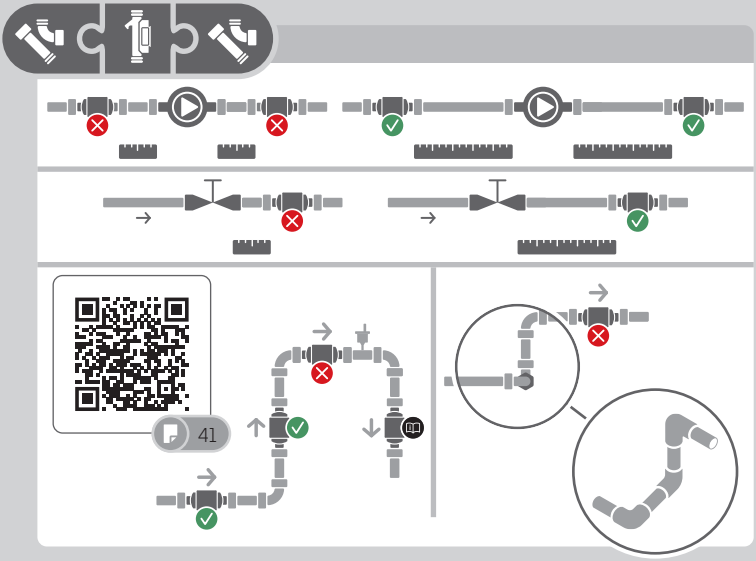


DN20	DN25 / DN15	DN32 / DN10

ULTRAFLOW®

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

V1	11 -	V1	11B -
	10		10B +
V2	11 -		
	69		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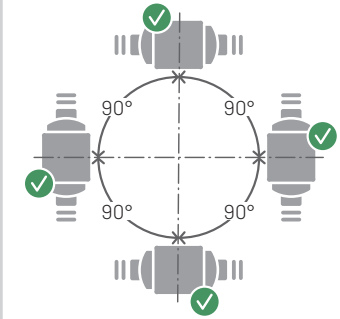
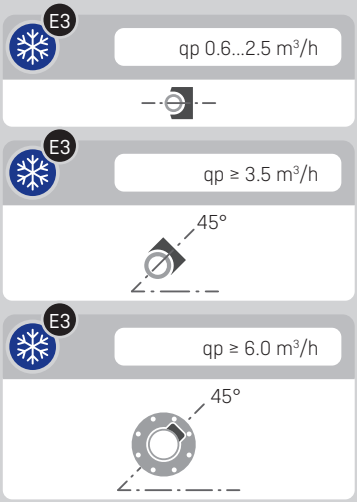
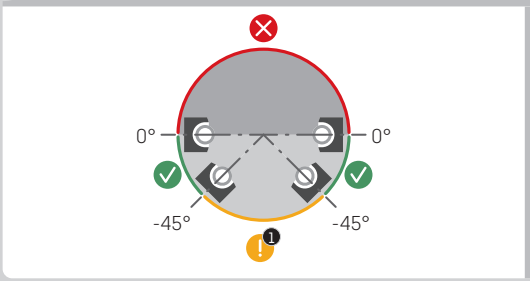
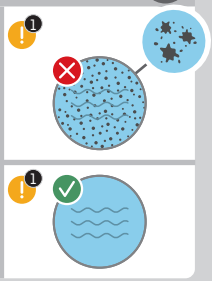

90°
90°
90°
90°


E3
qp 0.6...2.5 m³/h
E3
qp ≥ 3.5 m³/h
45°
E3
qp ≥ 6.0 m³/h
45°

4/6

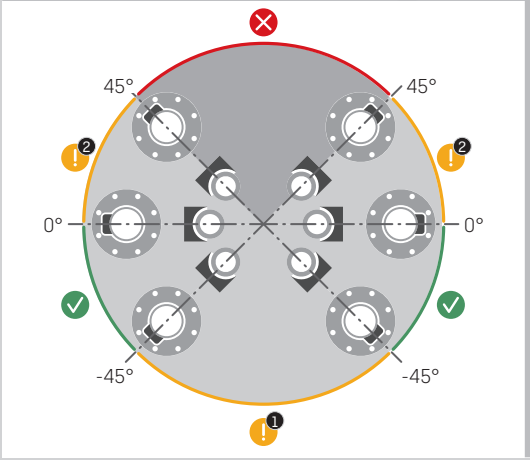
qp 0.6...2.5 m³/h

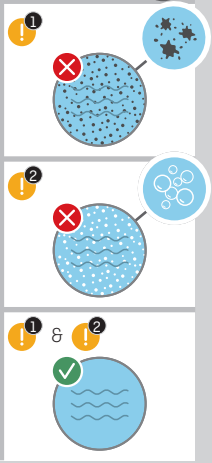




qp ≥ 3.5 m³/h

qp ≥ 6.0 m³/h

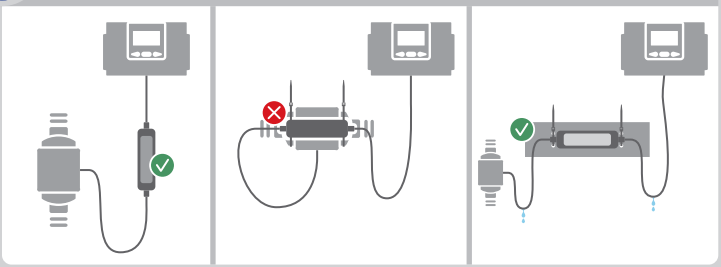




5/6

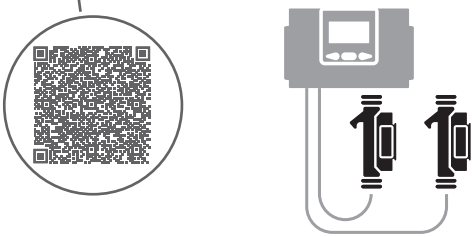
E3

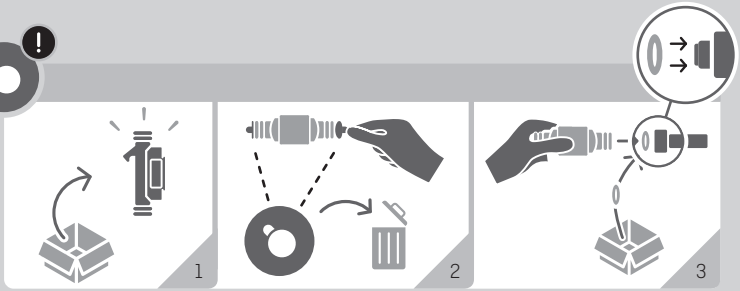
ULTRAFLOW® 44



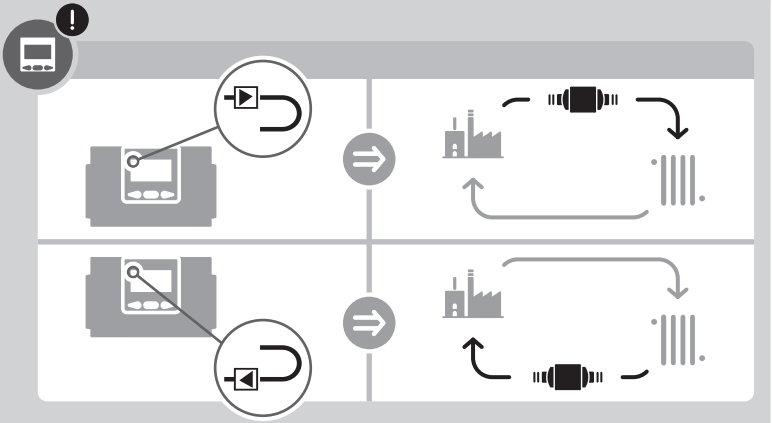
x2 =

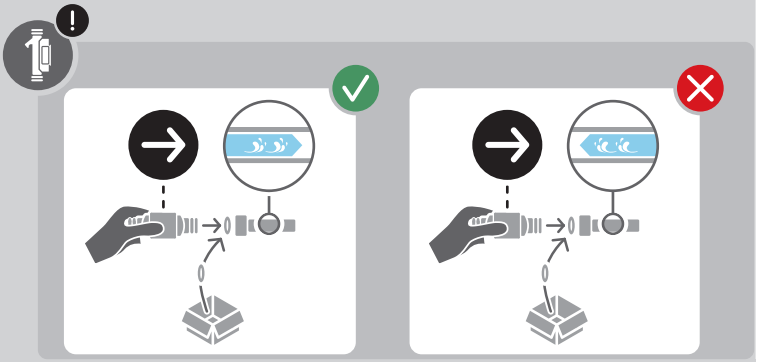
+ V2



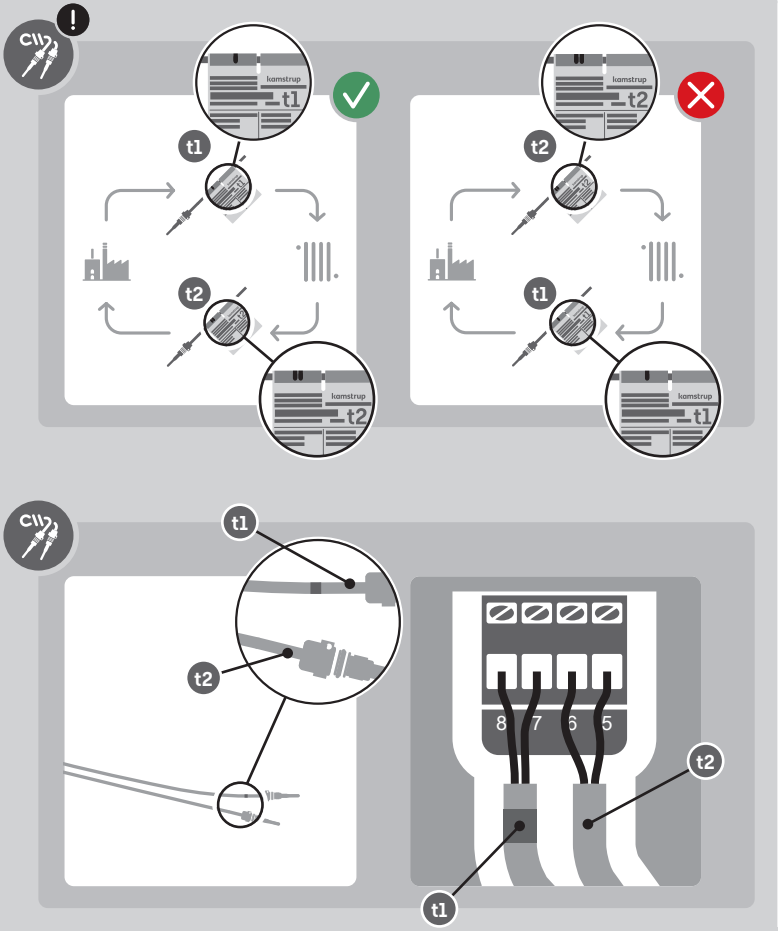


6/6

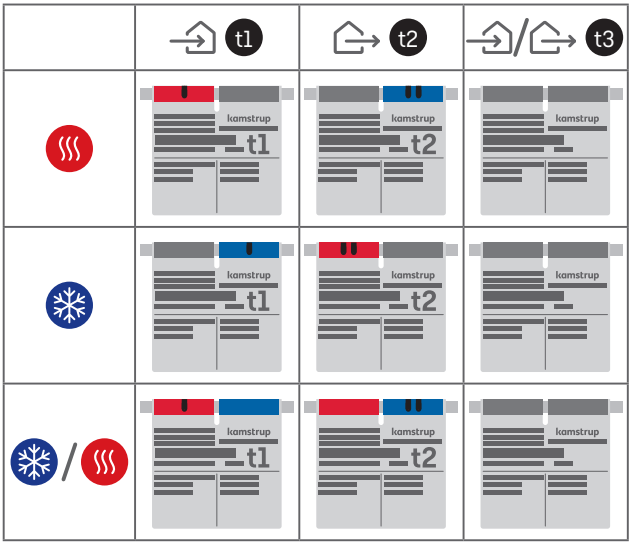




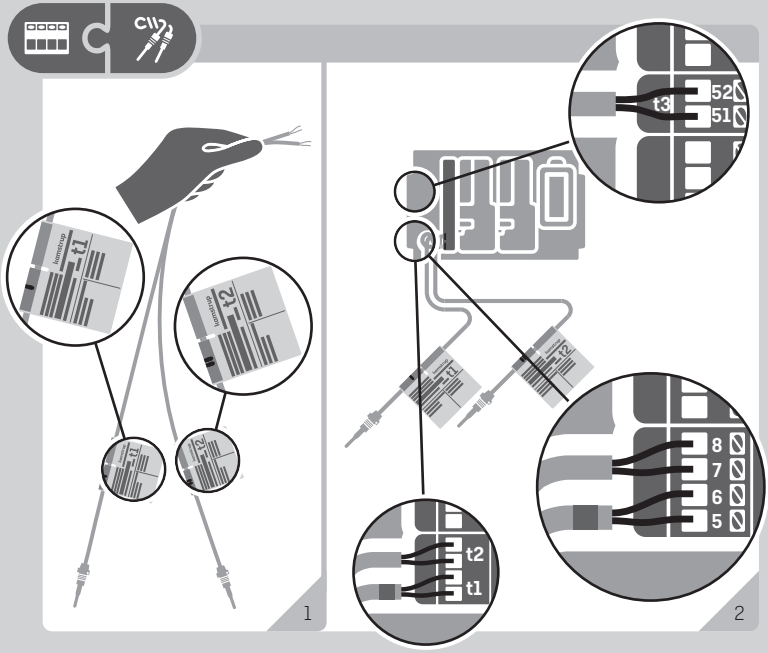
1/7

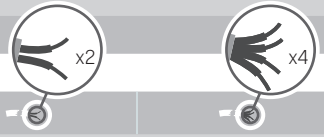


[x1] t1 [x2] t2 [x0] t3



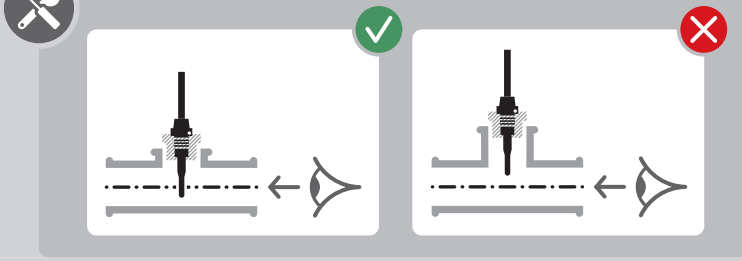
3/7

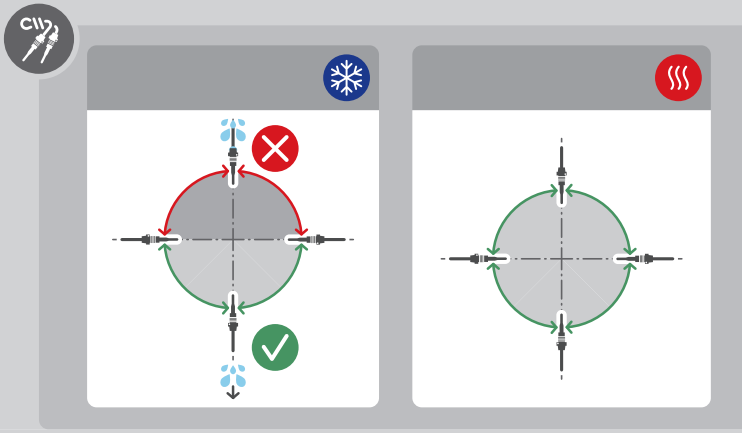


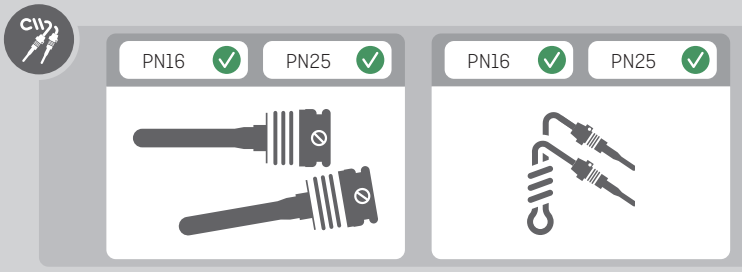


t1	5 6	1 5 6 2
t2	7 8	3 7 8 4
t3	51 52	

4/7







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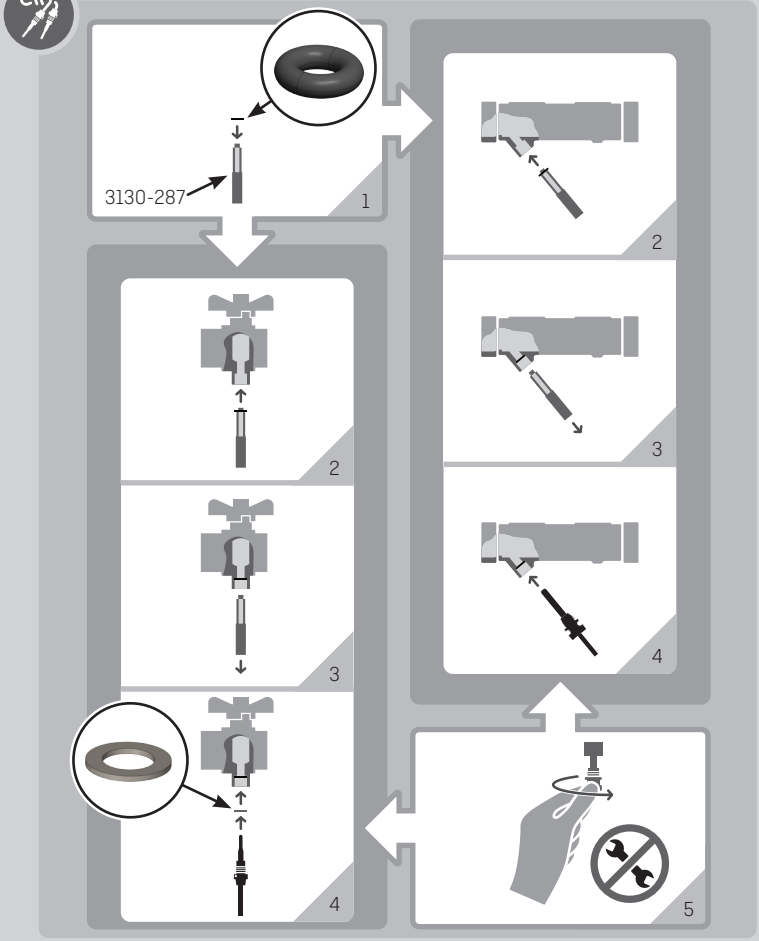
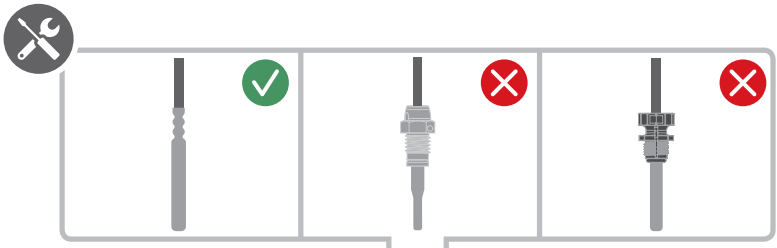
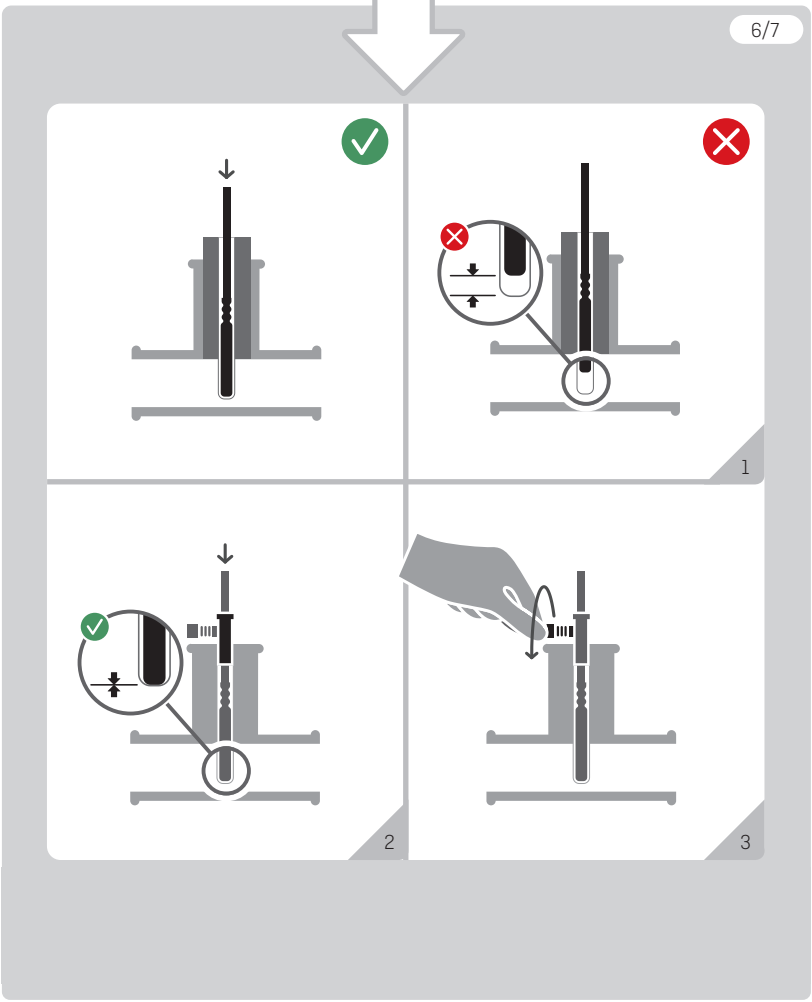
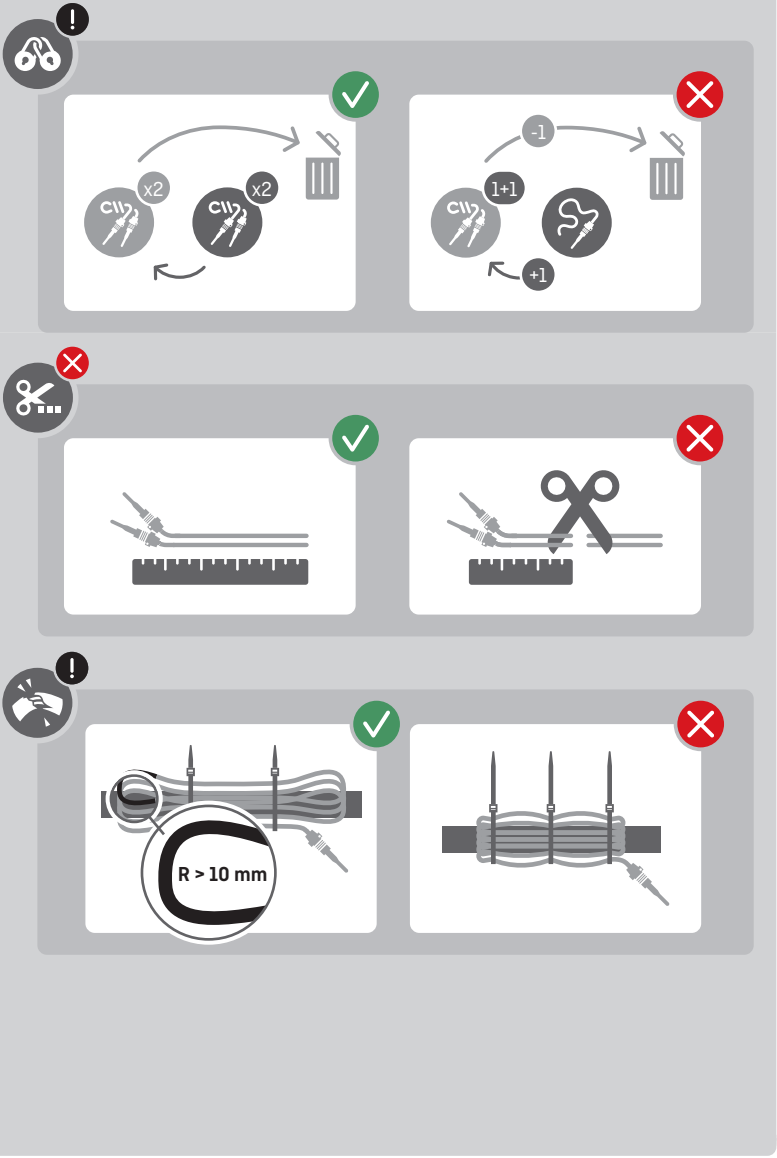
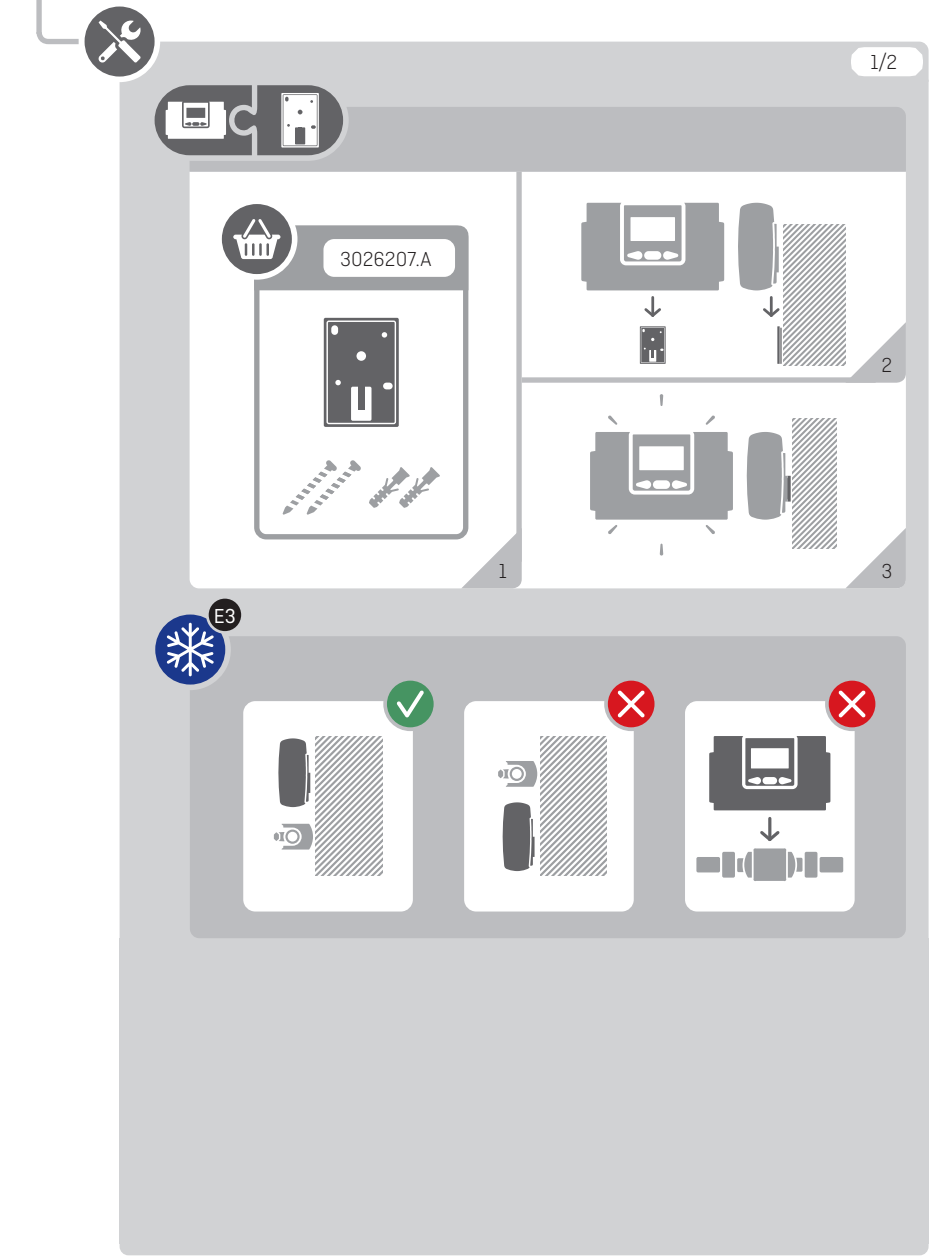


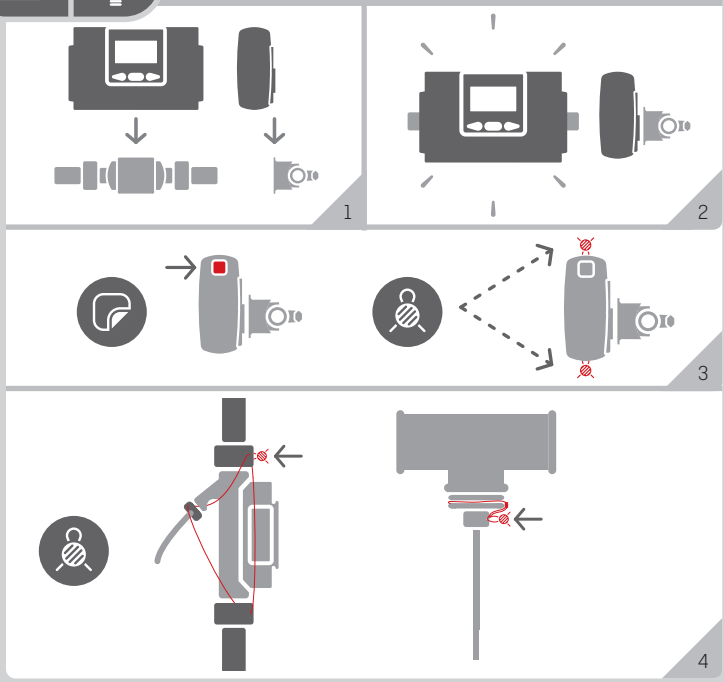


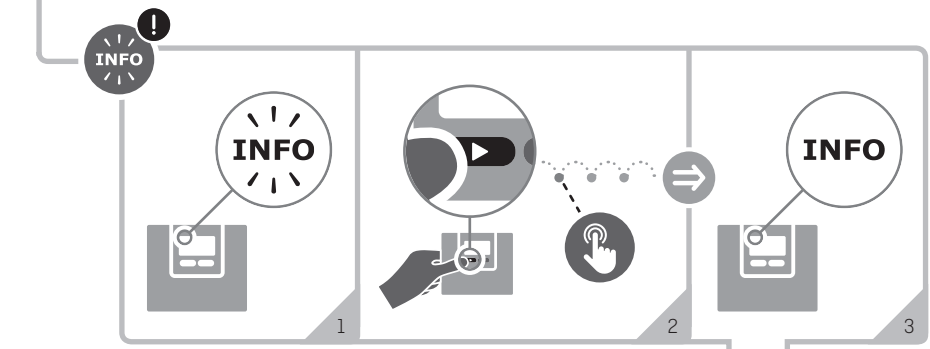

6/7
1
2
3

7/7

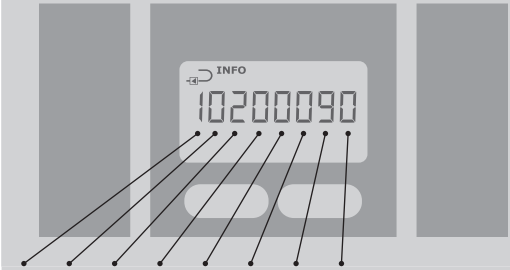



1/2
3026207.A
1
2
3
E3


1
2
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

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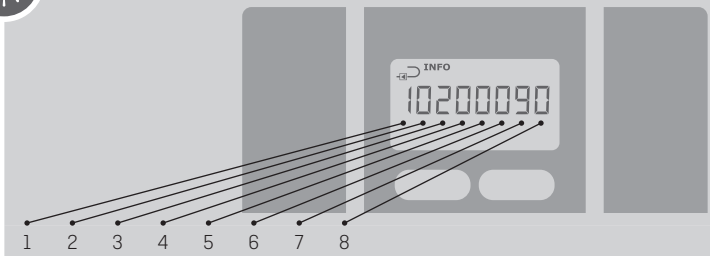
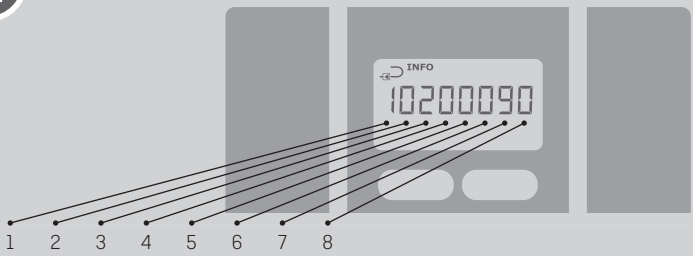


Info	t1	t2	0	V1	0	In-A	In-B	
	1							**t1** > 185 °C
		1						**t2** > 185 °C
			1					**t3** > 185 °C
	2							**t1** < 0 °C
		2						**t2** < 0 °C
			2					**t3** < 0 °C
	9	9						Δt (**t1**-**t2**) = ✗
						9		**A**:
							8	**B**:
							9	**B**:

INFO

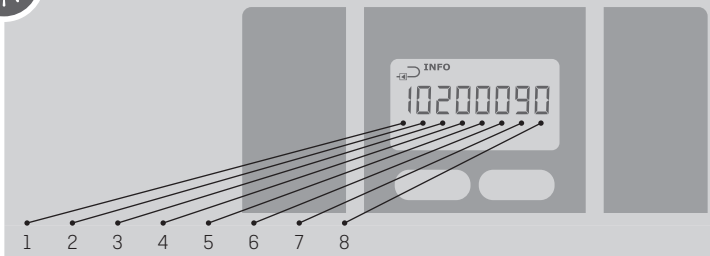
3/5

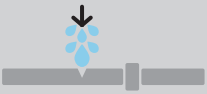


Info	t1	t2	0	V1	0	In-A	In-B	
				1				**V1**:
					1			**V2**:
				2				**V1**: **p/l** = ✗
					2			**V2**: **p/l** = ✗
				3				**V1**:
					3			**V2**
				4				**V1**:

INFO

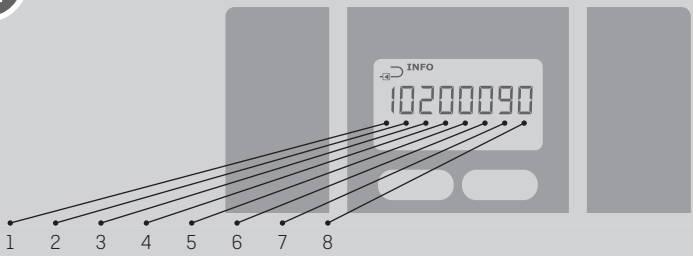
4/5



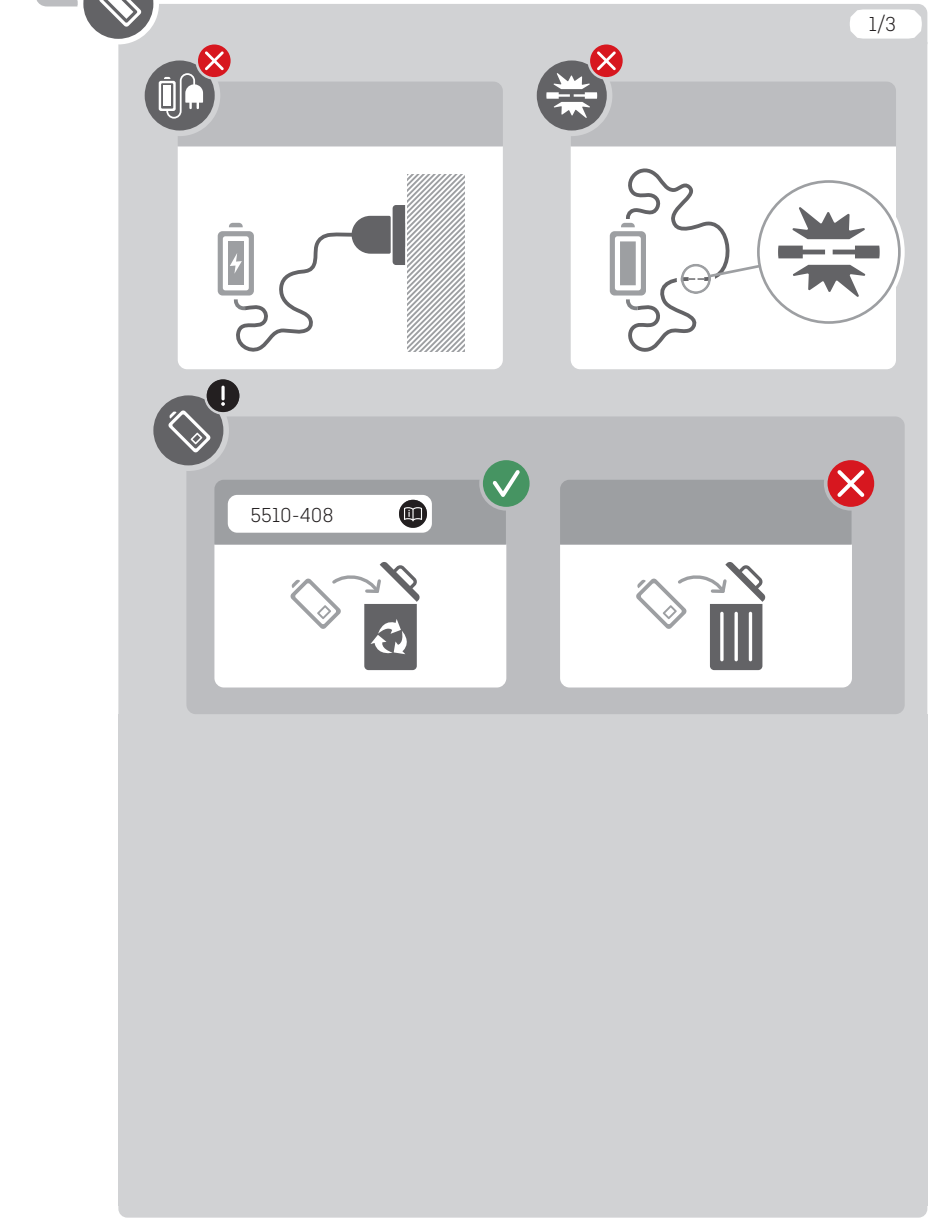
Info	t1	t2	0	V1	0	In-A	In-B	
					4			**V2**:
				6				**V1** > qs
					6			**V2** > qs
				7				
					7			
				8				
					8			

INFO

5/5

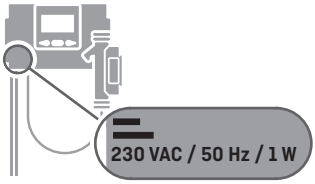


Info	t1	t2	0	V1	0	In-A	In-B	
						7		A2:
						8		A1:
						9		A1/A2:
							7	B2:
							8	B1:
							9	B1/B2:

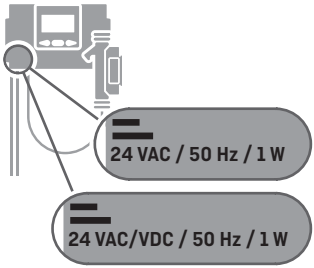

1/3
5510-408

2/3

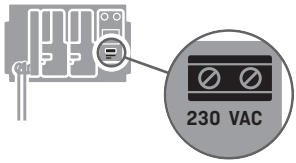
230 VAC / 50 Hz / 1 W



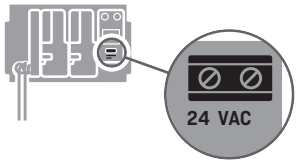
24 VAC / 50 Hz / 1 W



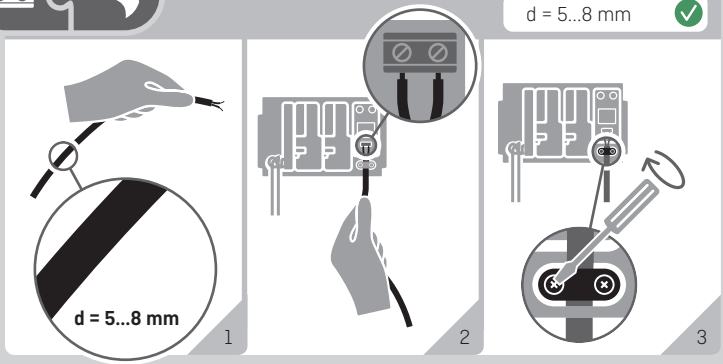
230 VAC



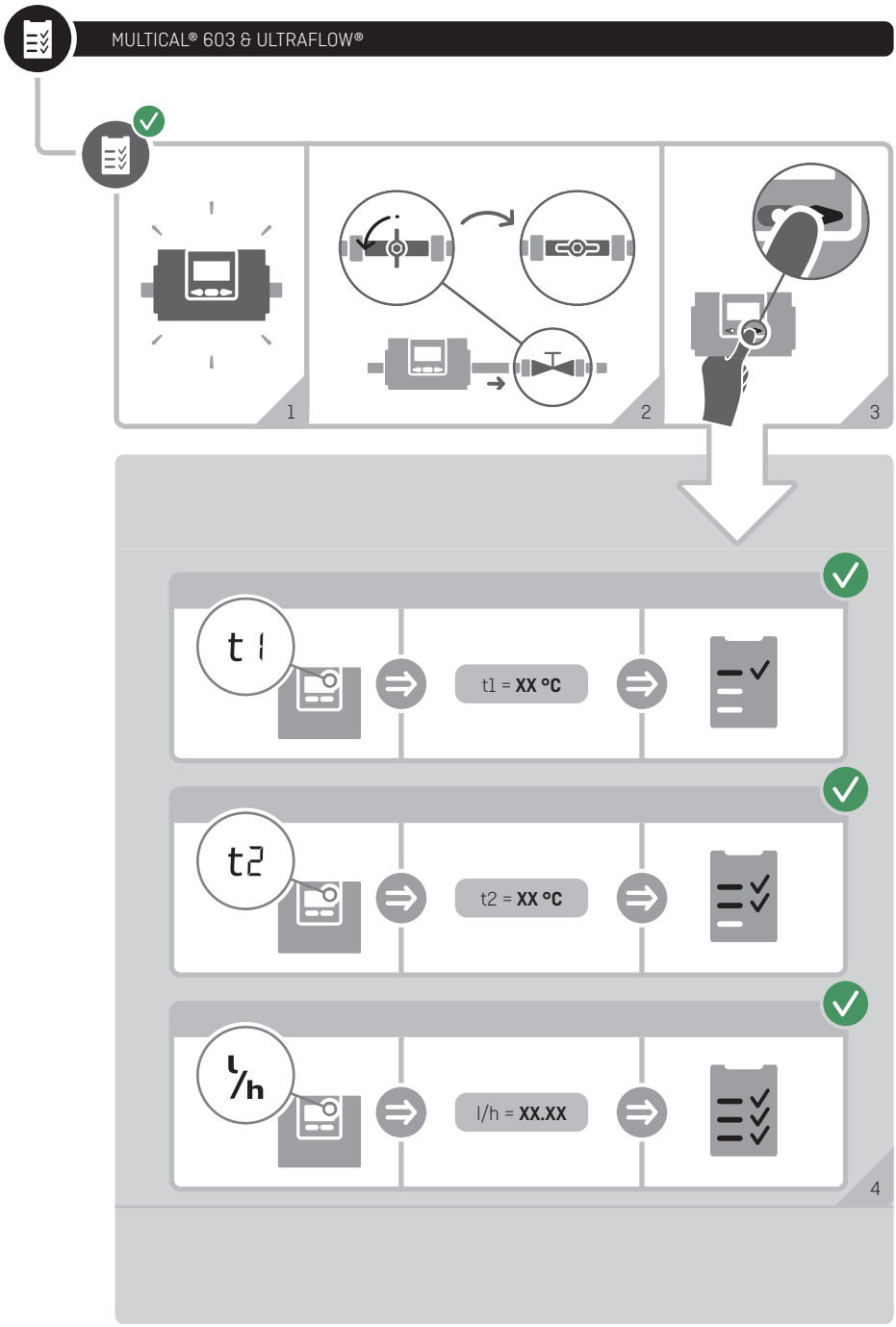
24 VAC



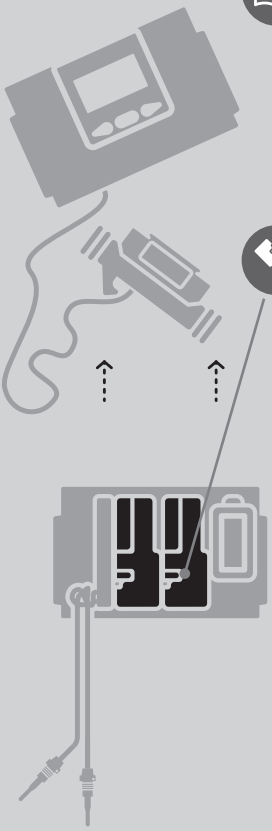
d = 5...8 mm



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-603



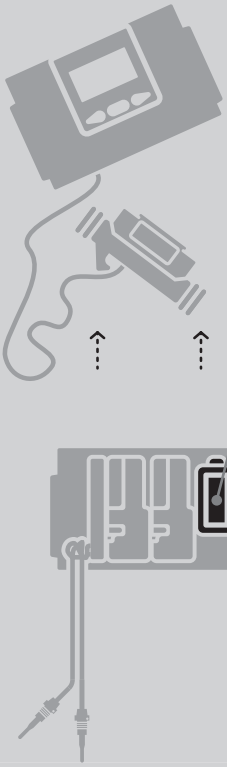
Data +	HC-003-10
Data +	HC-003-11
M-Bus +	HC-003-20
M-Bus +	HC-003-21
M-Bus +	HC-003-22
wM-Bus +	HC-003-30
wM-Bus +	HC-003-31
linkIQ/wM-Bus +	HC-003-32
linkIQ/wM-Bus +	HC-003-33
wM-Bus+	HC-003-34
Analog	HC-003-40
Analog	HC-003-41
PQT+	HC-003-43
Radio +	HC-003-50
Radio GDPR +	HC-003-51
NB-IoT +	HC-003-56
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**

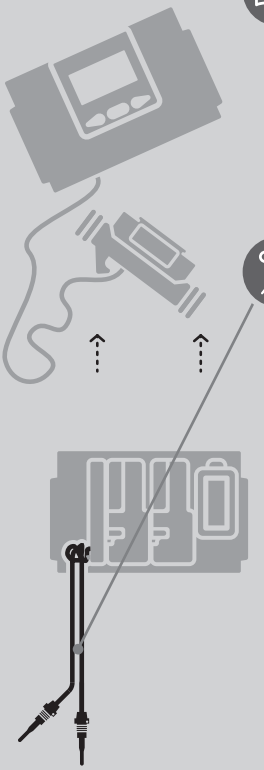
2/3

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 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

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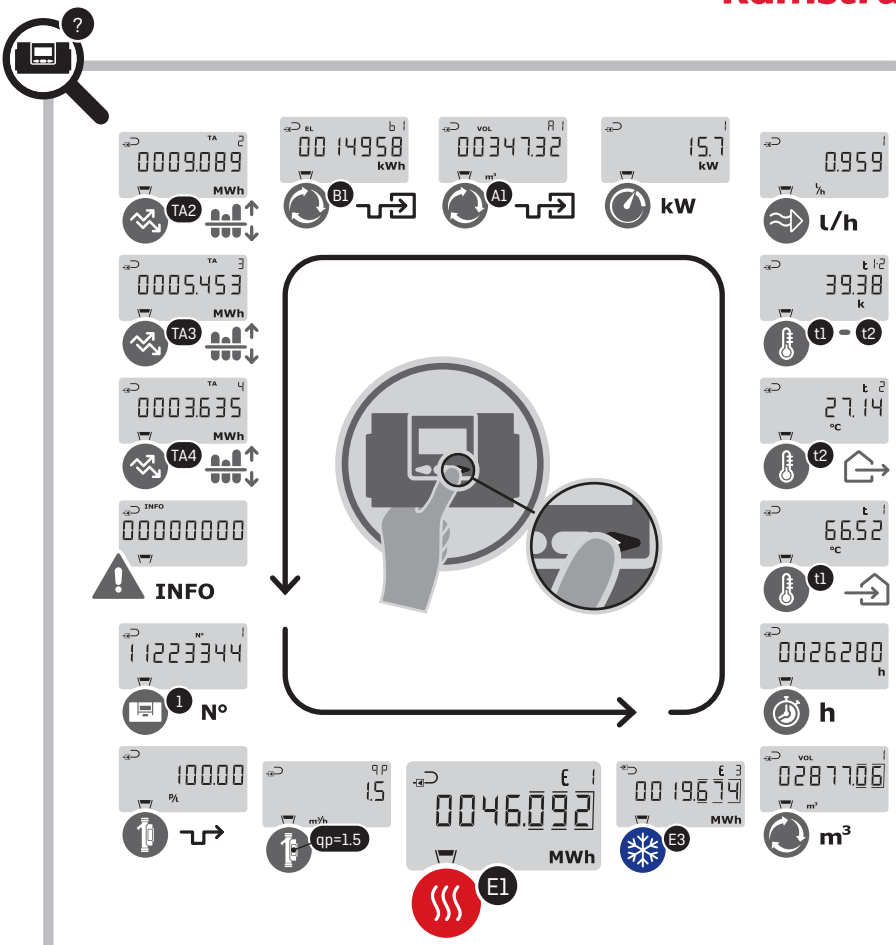

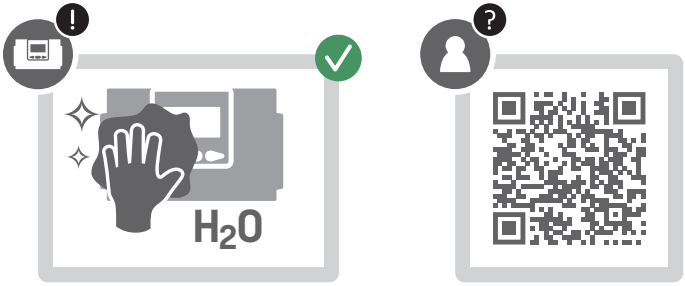

DDD = 310/610

https://guides.kamstrup.com/userguides/gb_mc603.htm

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