



Technical data

Ex-Control stations Type 413 84 | Type 413 85

Marking to 94/9/EC	Ⓔ II 2 G Ex ed ib m IIC T6 Ⓔ II 2 D Ex tD A21 IP66 T80 °C
EC-Type Examination Certificate	PTB 00 ATEX 3117
IECEX Certificate of conformity	IECEX BKI 04.0003
Marking accd. to IECEx	Ex e II T6, Ex e ib IIC T6, Ec ed IIC T6 or Ex ed ib IIC T6
Permissible ambient temperature	-20 °C to +40 °C -55 °C to +55 °C (option)
Rated voltage	690 V AC (with control switch GHG 23 to 500 V)
Rated current	35 A (with control switch GHG 23 max. 10 A)
Switch rating control switch GHG 23	AC 15: 230 V/10 A / 500 V/6 A DC 13: 24 V/ 2 A / 230 V/0.4 A
Connecting terminals	2 x 4 mm ²
Insulation class	I
Degree of protection accd. EN 60529	IP66 (standard) IP65 (measuring instrument AM45, double pushbutton)
Cable glands/Gland plates/Enclosure drilling	1 x M20 threaded entry
Enclosure material	High quality cast aluminium (AlSi)
Enclosure colour	Grey RAL 7031

Type 413 84

Dimensions (L x W x H)	122 x 120 x 81 mm
Weight (empty)	0.85 kg

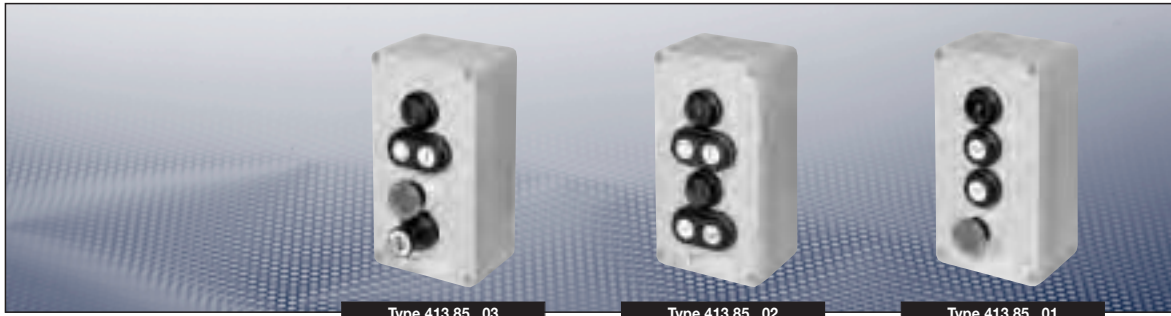
Type 413 85

Dimensions (L x W x H)	122 x 120 x 81 mm
Weight (empty)	1.45 kg

Type 413 84 with measuring instrument AM 72

	Moving iron	Moving coil
Marking to 94/9/EC	Ⓔ II G EEx e II	Ⓔ II G EEx ib IIC
Accuracy	Class 2.5	Class 1.5
Overload range	10-fold -25 sec. 25-fold - 4 sec. 50-fold - 1 sec. indicated 1:1.5	10-fold -5 sec.
Measuring range	n / 1A 0 - 25 A direct	0 - 20 mA 4 - 20 mA
Li	-	max. 0.1 mH
Ci	-	max. 0.1 nF
Ui	-	max. 30 V
Ii	-	max. 150 mA
Connecting terminals	2 x 1.5 - 4 mm ²	
Weight	1.25 kg	

¹⁾ Base enclosure can be rotated afterwards (entry from top or down)
Other versions available on request



Type 413 85...03

Type 413 85...02

Type 413 85...01

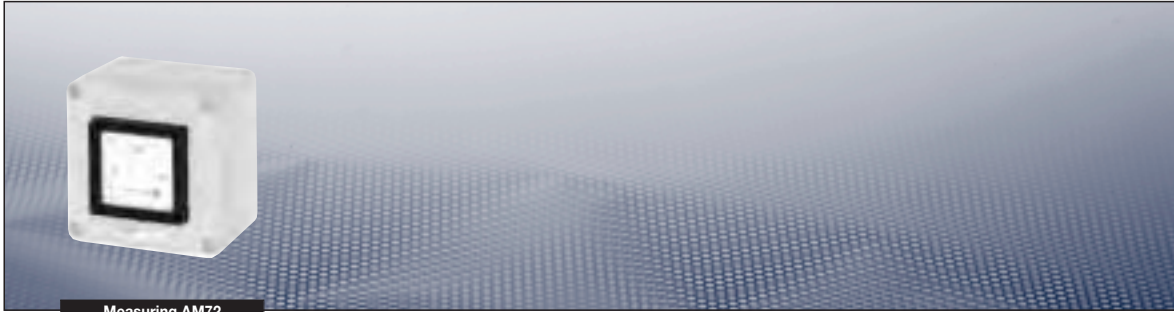
Ordering details type 413 85 with 4 built-in components

Version	Built-in components	Weight approx.	Order No.
<p>X1 ⊗ X2</p>	<p>1 x signal lamp SIL 20-250 V AC/DC coloured lens cover: "white, red, green, yellow" 2 x pushbutton DRT 1 NO + 1 NC label: "0, I, START, STOP" 1 x mushroom-head pushbutton SGTE 1 NO + 1 NC "Emergency stop"</p>	2.10 kg	GHG 413 8500 R0001
<p>X1 ⊗ X2</p> <p>X1 ⊗ X2</p>	<p>2 x signal lamp SIL 20-250 V AC/DC coloured lens cover: "white, red, green, yellow" 2 x double pushbutton DDT 1 NO + 1 NC label: "0, I, START, STOP"</p>	2.10 kg	GHG 413 8500 R0002
<p>X1 ⊗ X2</p>	<p>1 x signal lamp SIL 20-250 V AC/DC coloured lens cover: "white, red, green, yellow" label: "I 0 II" 1 x double pushbutton DDT 1 NO + 1 NC label: "0, I, START, STOP" 1 x mushroom-head pushbutton SGTE 1 NO + 1 NC "Emergency stop" 1 x key-operated switch 2 NO SW 5 "engaging-engaging-engaging" label: "I 0 II"</p>	2.20 kg	GHG 413 8500 R0003

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Ex-control stations

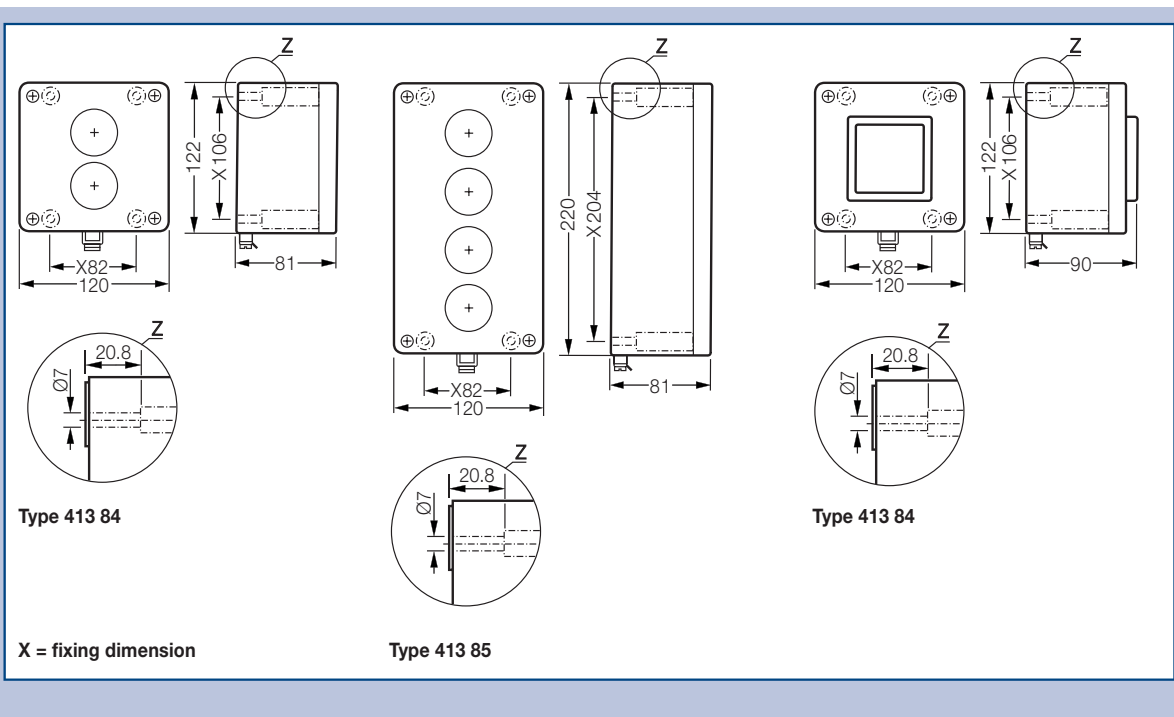


Measuring AM72

Ordering details type 413 84 with measuring instrument AM72

Version	Weight approx.	Order No.
Version direct measurement with 1 x threaded entry M20		
0 - 1 / 1.5 A	1.25 kg	GHG 413 8481 R0002
0 - 2.5 / 3.75 A	1.25 kg	GHG 413 8481 R0003
0 - 5 / 7.5 A	1.25 kg	GHG 413 8481 R0004
0 - 10 / 15 A	1.25 kg	GHG 413 8481 R0005
0 - 16 / 24 A	1.25 kg	GHG 413 8481 R0007
0 - 20 / 24 mA 0-100% / 120% (Ri =320 Ω)	1.35 kg	GHG 413 8481 R0033
4 - 20 / 24 mA 0-100% / 120% (Ri =320 Ω)	1.35 kg	GHG 413 8481 R0035
Version CT connection n/1A with 1 x threaded entry M20		
0 - 1 / 1.5 A	1.25 kg	GHG 413 8482 R0002
0 - 2.5 / 3.75 A	1.25 kg	GHG 413 8482 R0003
0 - 5 / 7.5 A	1.25 kg	GHG 413 8482 R0004
0 - 10 / 15 A	1.25 kg	GHG 413 8482 R0005
0 - 15 / 22.5 A	1.25 kg	GHG 413 8482 R0007
0 - 20 / 30 A	1.25 kg	GHG 413 8482 R0008
0 - 30 / 45 A	1.25 kg	GHG 413 8482 R0009
0 - 40 / 60 A	1.25 kg	GHG 413 8482 R0010
0 - 50 / 75 A	1.25 kg	GHG 413 8482 R0011
0 - 60 / 90 A	1.25 kg	GHG 413 8482 R0012
0 - 75 / 112.5 A	1.25 kg	GHG 413 8482 R0013
0 - 100 / 150 A	1.25 kg	GHG 413 8482 R0014
0 - 100% / 150%	1.25 kg	GHG 413 8482 R0033

Dimension drawing



Dimensions in mm