



Measuring instrument AM72

Type 413 85

Type 413 84

Technical data

Ex-control stations Type 413 84 Type 413 85											
Marking accd. to 94/9/EC	ⓧ II 2 G Ex ed ibm IIC T6 ⓧ II 2 D Ex tD A21 IP66 T80 °C										
EC-Type Examination Certificate	PTB 00 ATEX 3117										
IECEX Certificate of Conformity	IECEX BK1 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 up to +40 °C -55 °C up to +55 °C (option)										
Rated voltage	690 V AC (with control switch GHG 23 to 500 V)										
Rated current	16 A (with control switch GHG 23 max. 10 A)										
Rated making-/rated breaking capacity accd. EN 60947-5-1	<table border="0"> <tr> <td>Ex41</td> <td>Ex23</td> </tr> <tr> <td>AC-15: U_o 250 V / I_o 6 A</td> <td>AC-15: U_o 230 V / I_o 6 A</td> </tr> <tr> <td>U_o 500 V / I_o 4 A</td> <td>U_o 500 V / I_o 4 A</td> </tr> <tr> <td>DC-13: U_o 24 V / I_o 6 A</td> <td>DC-13: U_o 24 V / I_o 2 A</td> </tr> <tr> <td>U_o 220 V / I_o 1 A</td> <td>U_o 230 V / I_o 0.5 A</td> </tr> </table>	Ex41	Ex23	AC-15: U _o 250 V / I _o 6 A	AC-15: U _o 230 V / I _o 6 A	U _o 500 V / I _o 4 A	U _o 500 V / I _o 4 A	DC-13: U _o 24 V / I _o 6 A	DC-13: U _o 24 V / I _o 2 A	U _o 220 V / I _o 1 A	U _o 230 V / I _o 0.5 A
Ex41	Ex23										
AC-15: U _o 250 V / I _o 6 A	AC-15: U _o 230 V / I _o 6 A										
U _o 500 V / I _o 4 A	U _o 500 V / I _o 4 A										
DC-13: U _o 24 V / I _o 6 A	DC-13: U _o 24 V / I _o 2 A										
U _o 220 V / I _o 1 A	U _o 230 V / I _o 0.5 A										
Connecting terminals	2 x 4 mm ²										
Protection class	I										
Degree of protection accd. to EN 60529	IP66										
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)	220 x 120 x 81 mm
Weight (empty)	1.45 kg

Type 413 84 with measuring instrument AM 72

Movement	Moving iron	Moving coil
Marking accd. to 94/9/EC	ⓧ II G Ex e II	ⓧ II G Ex 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, optional 1:6, 1:10	10-fold -5 sec.
Measuring range	n / 1A 0 - 25 A direct	0 - 20 mA 4 - 20 mA
Inductance Li	-	≤ 0.1 mH
Capacitance Ci	-	≤ 0.1 nF
Open circuit voltage max. Ui	-	30 V
Short circuit current max. Ii	-	150 mA
Connecting terminals	2 x 1.5 - 4 mm ²	
Weight	1.25 kg	

¹⁾ Base enclosure can be rotated after wards (entry from top or down)

Other versions available on request

Ex-control stations



Type 413 84...01



Type 413 84...02



Type 413 84...03



Type 413 84...04

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Ordering details Type 413 84 with 2 built-in components

Content	Built-in components	Weight approx.	Order No.
	2 x pushbutton DRT 1 NO + 1 NC each label: "0, I, START, STOP"	1.25 kg	GHG 413 8400 R0001
	1 x signal lamp SIL 20-250 V AC/DC coloured lens cover: „white, red, green, yellow“ 1 x double pushbutton DDT 1 NO + 1 NC label: "0, I, START, STOP"	1.30 kg	GHG 413 8400 R0002
	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"	1.30 kg	GHG 413 8400 R0003
	1 x measuring instrument AM45 CT connection n/1A Scale 0 –100%/150% 1 x double pushbutton DDT 1 NO + 1 NC label: "0, I, START, STOP"	1.35 kg	GHG 413 8400 R0004



Type 413 85...03

Type 413 85...02

Type 413 85...01

Ordering details Type 413 85 with 4 built-in components

Content	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>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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