

Interchangeable scales

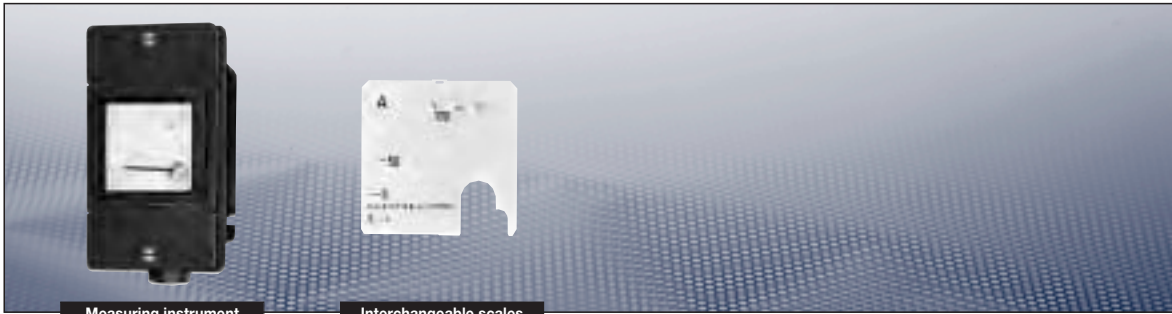
Measuring instrument

Technical data

Type 413 84 with measuring instrument AM 72

	Moving iron	Moving coil
Marking to 94/9/EC	⊕ II G Ex e II / ⊕ I M 2 Ex e I	⊕ II G Ex ib IIC / ⊕ I M 2 Ex ib I
EC-Type Examination Certificate	PTB 00 ATEX 3117	
Permissible ambient temperature	-20 °C to +40 °C -55 °C to +55 °C (option)	
Rated voltage	up to 690 V	
Power consumption	max. 0.31 VA	
Overload range	10 fold - 25 sec. 25 fold - 4 sec. 50 fold - 1 sec. indicated 1 : 1.5	10-fold - 5 sec.
Measuring range	max. 0 - 25 A direct / n / 1A	0/4 - 24 mA
Inductance Li	< 0.1 mH	
Capacitance Ci	< 0.1 nF	
Winding specification of moving coil	26.5 windings	
Internal resistance	2.5 Ω ± 30 %	
Open circuit voltage max. Ui	≤ 30 V	
Short circuit current max. Ii	≤ 150 mA	
Accuracy	Class 2.5	Class 1.5
Connecting terminals	2 x 1.5 - 4 mm ²	
Degree of protection accd. EN 60529	IP66	
Cable glands/Gland plates/Enclosure drilling	1 x M25 (Ø 8 - 17 mm)	
Dimensions (L x W x H)	160 x 95 x 62 mm	
Display size AM 72	72 x 72 mm	
Weight	0.8 kg	
Type of mounting	DIN rail mounting	
Enclosure colour	grey	

Ex-Control and signal units



Ordering code for Component (Code 2) Code A - B - C

A	B	C
GHG 412 828	—	R0 —

Code	Component	Code
A	Measuring instrument AM 72	GHG 412 828

Code	Movement	Code
B	Direct connection	1
	Ct connection 1 /A	2
	Port 0 - 20/24 mA (scale 0-100% / 120%) ¹⁾	5
	Port 4 - 20/24 mA (scale 0-100% / 120%) ¹⁾	6
	Moving-coil connection 0 - 20/24 mA (scale 0-100% / 120%) ^{1) 3)}	7
	Moving-coil connection 4 - 20/24 mA (scale 0-100% / 120%) ^{1) 3)}	8

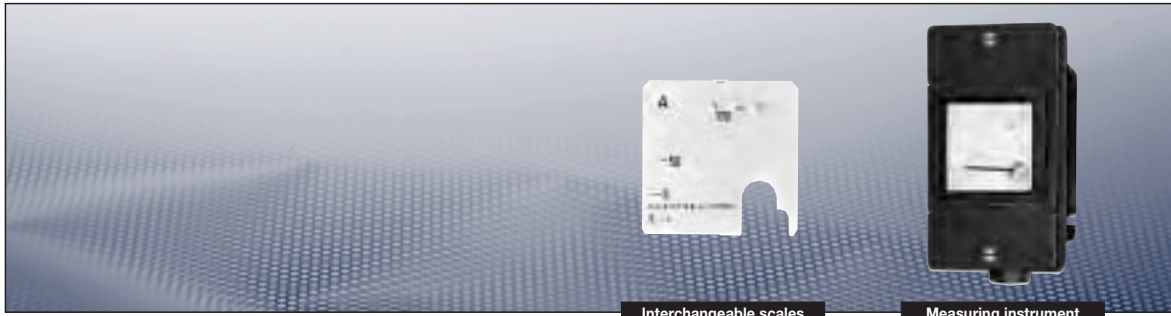
Code	Mesasuring range/scale	Code C	Measuring range/scale	Code C
	0 - 1	002	0 - 75 /112.5 A	013
	0 - 2.5 / 3.75 A ²⁾	003	0 - 100 / 150 A	014
	0 - 5 / 7.5 A ²⁾	004	0 - 150 / 225 A	015
	0 - 10 / 15 A ²⁾	005	0 - 200 / 300 A	016
	0 - 15 / 22.5 A	006	0 - 250 / 375 A	017
	0 - 20 / 30 A ²⁾	008	0 - 300 / 450 A	018
	0 - 30 / 45 A	009	0 - 400 / 600 A	019
	0 - 40 / 60 A	010	0 - 500 / 750 A	020
	0 - 50 / 75 A	011	0 - 600 / 900 A	021
	0 - 60 / 90 A	012	0 - 100% / 150%	033

¹⁾ Movements 0 - 20 mA/ 4 - 20 mA and with moving-coil connection are only available with scale 0 - 100%/ 120%.

²⁾ Version for direct connection (standard: CT connection n/1A) possible.

³⁾ Moving coil only for Ex-i of Ex-d flameproof applications

Other interchangeable scales available on request.



Interchangeable scales

Measuring instrument

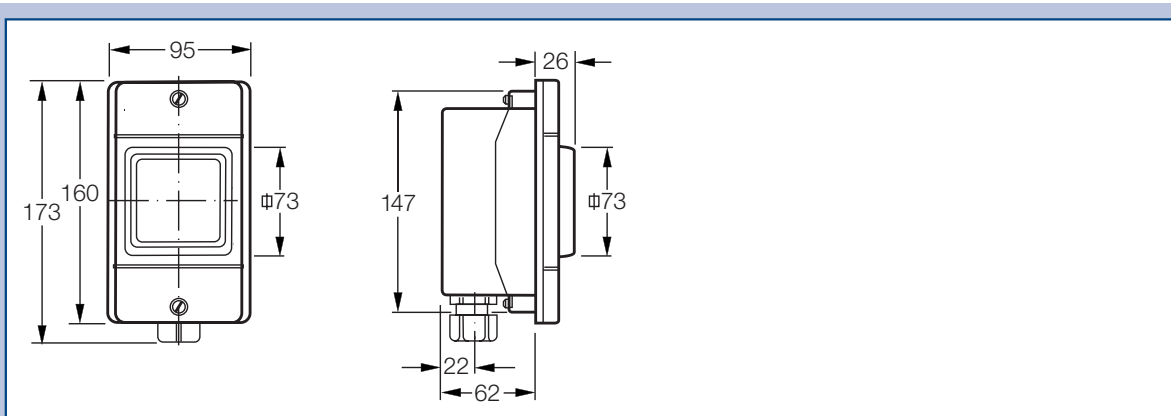
Example for ordering code (Code 2)

Measuring range	Ordering code
Measuring instrument AM 72, direct measurement	
Version with 1 x cable entry M25	
0 - 1 / 1.5 A	GHG 412 8281 R0002
0 - 2.5 / 3.75 A	GHG 412 8281 R0003
0 - 5 / 7.5 A	GHG 412 8281 R0004
0 - 10 / 15 A	GHG 412 8281 R0005
0 - 16 / 24 A	GHG 412 8281 R0007
0 - 20 / 24 mA 0-100% / 120% (Ri = 320 Ω)	GHG 412 8285 R0033
4 - 20 / 24 mA 0-100% / 120% (Ri = 320 Ω)	GHG 412 8286 R0035

Measuring instrument AM 72, Ct connection n/1A	
Version with 1 x cable entry M25	
0 - 1 / 1.5 A	GHG 412 8282 R0002
0 - 2.5 / 3.75 A	GHG 412 8282 R0003
0 - 5 / 7.5 A	GHG 412 8282 R0004
0 - 10 / 15 A	GHG 412 8282 R0005
0 - 15 / 22.5 A	GHG 412 8282 R0006
0 - 20 / 30 A	GHG 412 8282 R0008
0 - 30 / 45 A	GHG 412 8282 R0009
0 - 40 / 60 A	GHG 412 8282 R0010
0 - 50 / 75 A	GHG 412 8282 R0011
0 - 60 / 90 A	GHG 412 8282 R0012
0 - 75 / 112.5 A	GHG 412 8282 R0013
0 - 100 / 150 A	GHG 412 8282 R0014
0 - 150 / 225 A	GHG 412 8282 R0015
0 - 200 / 300 A	GHG 412 8282 R0016
0 - 250 / 375 A	GHG 412 8282 R0017
0 - 300 / 450 A	GHG 412 8282 R0018
0 - 400 / 600 A	GHG 412 8282 R0019
0 - 500 / 750 A	GHG 412 8282 R0020
0 - 600 / 900 A	GHG 412 8282 R0021
0 - 100% / 150%	GHG 412 8282 R0031

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Dimension drawing



Dimensions in mm