Current measurement **AMP**

Multi 9 Merlin Gerin

The **AMP Ammeters** are modular or flush-mounting devices designed to measure the strength of a current flowing through all types of low voltage electrical circuits.



Flush-mounting ammeters:

■ Analog AMP:

□ the measurement is read on an interchangeable dial, 72 mm high and 72 mm wide with a scale of 90°.

Modular ammeters:

■ Analog AMP:

AMP: 16009

AMP: 16029

□ the measurement is read directly on an interchangeable dial graduated in true values by means of a needle covering a 90° range.

■ Digital AMP

□ the measurement is read on a 3-digit display with red LED.

□ the AMP can be either connected directly to the electrical circuit or connected by means of a current transformer (TI) with separate control.

Advantages

A product range designed to adapt to all kinds of electrical installations:

- Comfort:
- □ clear, accurate measurements,
- □ immediate display of current level,
- □ direct reading of current value without calculation,
- □ interchangeable dials.
- Attractive design:
- □ compact dimensions,
- □ modern.
- Installation:
- □ ease of mounting and connection,
- □ optional connection with an ammeter selector switch.
- Modular AMP consistent with the entire Multi 9 offer:
- □ same profile,
- □ same connections.

The range

Modular layout multimeter PM9 (product datasheet M9FP256.en)



AMP: 15209

















Flush-mounting layout

VLT VLT digital analog (product datasheet M9FP190.en)







FRE digital (product datasheet M9FP190.en)



VLT 72x72 (product datasheet M9FP190.en)





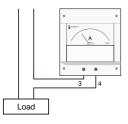
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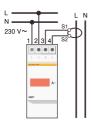


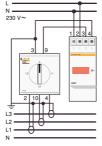


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Schematic diagrams







Analog AMP

Туре

Digital AMP + TI

Connection

Digital AMP + CMA

Cat. no.

Frequency

Choice table

Scale

Rating

Type	(A)	(A)	on TI	(Hz)	Cat. IIO.
Modula	r devices:	(~)	OII II	(112)	
	AMP (direct co	nnection)		
7	0 30	30	no	5060	16029
Analog	AMP (connect			0000	10020
Basic de					
	ed without dial)	5	X/5A	5060	16030
Dial	0 5	5	no		16031
	0 50	50	50/5A		16032
	0 75	75	75/5A		16033
	0 100	100	100/5A		16034
	0 150	150	150/5A		16035
	0 200	200	200/5A		16036
	0 250	250	250/5A		16037
	0 300	300	300/5A		16038
	0 400	400	400/5A		16039
	0 500	500	500/5A		16040
	0 600	600	600/5A		16041
	0 800	800	800/5A		16042
	0 1000	1000	1000/5A		16043
	0 1500	1500	1500/5A		16044
	0 2000	2000	2000/5A		16045
Digital	AMP (direct co	nnection)			
	0 10	10	no	5060	15202
Digital A	AMP multi-ratir	ng			
	0 5	5	no	5060	15209
	0 5000	5000	as per rating	5060	15209
	er selector swi				
CMA	4 positions	10 (415	VAC)		15126
	nounting devic				
	AMP for direct	outgoer			
Basic de		_	\/_ A		
_	ed without dial)	5	X/5A	5060	16004
Dial	0 65	50	50/5A		16009
	0 130	100	100/5A		16010
	0 260	200	200/5A		16011
	0 520	400	400/5A		16012
	0 780	600	600/5A		16013
	0 1300	1000	1000/5A		16014
	0 1625	1250	1250/5A		16015
	0 1950	1500 2000	1500/5A		16016
	0 2600 AMP for motor		2000/5A		16019
		outgoer			
Basic de	evice ed without dial)	5	X/5A	5060	16002
Dial	0. 30. 90	5 30	30/5A	3000	16003 16006
	0. 75. 225 0. 200. 600	75 200	75/5A 200/5A		16007 16008
Ammet	er selector swi		200/3A		10000
CMA	4 positions		\/CA\		16017
CIVIA	4 positions	20 (500	v GA)		16017

Implementation

■ Installation:

□ adapted to all types of modular electrical switchboards and enclosures,

□ ease of installation on symmetrical rail.

■ Installation of the flush-mounting AMP: □ requires a square cut-out in the wall.

Technical data

Electrical data:

Analog modular and flush-mounting AMP

■ Overload:

□ maximum for 5 seconds: 10 In,

permanent: 1.2 ln. ■ Consumption: 1.1 VA.

■ Accuracy class: 1.5. Digital modular AMP

■ Överload:

□ maximum for 5 seconds: 10 ln,

permanent: 2 In.

■ Consumption: 0.3 VA.

■ Power supply by auxiliary source:
□ 230 V; -15...+10 %; 50...60 Hz.

■ Full-scale accuracy: 0.5 % ±1digit.

Mechanical data:

Flush-mounting AMP

- Operating position: 30°/vertical.
- Scale length in 90°: 62 mm.
- Ferromagnetic device.
- Connection by 4 mm Ø lugs.
- Overall dimensions: h = 72; w = 72 mm.

■ Weight (g): 155. Analog modular AMP

- Ferromagnetic device.
- Connection:

□ tunnel terminals for 1.5 to 6 mm² rigid cable.

- Pseudo-linear scale over 90°.
- Overall dimensions: h = 79; w = 72; d = 66 mm.
- Weight (g): 170.

Digital modular AMP

- Display: 3-digit display with red LED, h: 8 mm.
- Connection:
- □ tunnel terminals for two 2.5 mm² cables.
- Overall dimensions: h = 87; w = 36; d = 61 mm.
- Weight (g): 170.

Environment

Flush-mounting AMP

- Complies with standards: IEC 414 IEC 61010.
- Degree of protection on front face: IP 520.
- Installation temperature: -25°C to +50°C.
- Storage temperature: -40°C to +80°C.

Analog modular AMP

- Complies with standards: IEC 51 IEC 414.
- Degree of protection:
- □ of terminal block IP 40,
- □ of terminals IP 20.
- Installation temperature: -25°C to +55°C.
- Storage temperature: -40°C to +80°C.
- Reference temperature: 23°C.
- Effect of temperature on accuracy: ±0.03%/°C.

Digital modular AMP

- Complies with standards: IEC 61010.
- Degree of protection:
- □ of terminal block IP 40,
- □ of terminals IP 20.
- Installation temperature: -25°C to +55°C.
- Storage temperature: -40°C to +80°C.

Schneider Electric

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As standards, specifications and designs develop from time to time, always ask for confirmation of the information given in this publication.

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