

Viewline Ammeter

Description

Indication of battery charge and discharge current.

Features

- _ LED illumination
- _ Integrated Warning LED
- _ Changeable bezels
- _ Backlit technology
- _ Antifog and splash protection
- _ Panel and flush mount possibility



Picture: Ammeter

Concept

Housing	Polycarbonat (PC)
Bezel	PC (black, white) or ABS (chrome); several colors and shapes (see table)
Lens	PMMA; double lens
Dial	backlit; different colors (black, white)
Pointer	backlit, white on black dials; red on white dials
Illumination	Dial: LED amber (605nm) Pointer: LED red (632nm)
Warning LED	red (632nm), only with optional PC Software adjustable
Mounting	Spinlock Nut; locking height 0.5mm – 20mm, Optional Studs and Bracket; locking height 2 – 15mm
Connection	8 pin MQS connector system
Sensor	Shunts according to DIN 43703; 60 mV at full deflection angle

Technical Data			
Installation depth	50mm		
Installation diameter	52mm		
Deflection angle	240°		
Operating Voltage	8 – 32 Volt		
Accuracy	< 2.5 % of the full scale reading at 13.0 Volt		
Current consumption	< 140 mA, including Warning LED		
Operating temperature	-30°C to +80°C; plated bezels (chrome) -30°C to +70°C		
Storage temperature	-40°C to +80°C for 48h; plated bezels (chrome) -40°C to +70°C +90°C for 1h		
Temperature shock	Range	-40°C to +85°C; plated bezels (chrome) -40°C to +70°C	
	Transformation time		10 seconds
	Retention time		2h
Climatic test	Range	+25°C to +55°C	
	Rel. Humidity	95%	
EMC in conformity with (Electromagnetic compatibility)	DIN_EN 61000-6-2 DIN_EN 61000-6-3 DIN_EN 61000-6-4		
Standards	CE ECE-R10		
Vibration	Sinus 2g; 10-500Hz; duration 16h Noise 3g; 10-1000Hz, duration 8h		
Mechanical shock	continuous	25g; 6ms; 1Hz	
	Single shock	100g; 11ms	
	Free fall	1m; 3 times	
Chemical resistance against	<ul style="list-style-type: none"> - preservative agent - preservative agent remover - cold cleaner - methylated spirit - interior cleaner - drinks containing caffeine and tannin 		
Nominal position	NL 0 to NL 85 (DIN16257)		
Protection class	according to IEC 60529 Front: IP67 (in nominal position) Rear: IP52 (in nominal position)		
Reverse polarity protection	yes, 5 minute		
Over voltage protection	yes, 1 minute		

Available Gauges:

No. unpacked *	Dial color	Measurement range	ISO Symbol	Sensor	Voltage	Double lens
A2C53211039	black	-30A to +30 A	AMP	60 mV	12/24 Volt	no
A2C53211035	black	-60A to +60A	AMP	60 mV	12/24 Volt	no
A2C53210973	black	-100A to +100A	AMP	60 mV	12/24 Volt	no
A2C53210972	black	-150A to +150A	AMP	60 mV	12/24 Volt	no
A2C53211037	white	-30A to +30A	AMP	60 mV	12/24 Volt	no
A2C53211034	white	-60A to +60A	AMP	60 mV	12/24 Volt	no
A2C53210974	white	-100A to +100A	AMP	60 mV	12/24 Volt	no
A2C53210971	white	-150A to +150A	AMP	60 mV	12/24 Volt	no
A2C53210959	black	-60A to +60A	AMP	60 mV	12/24 Volt	yes
A2C53210957	black	-150A to +150A	AMP	60 mV	12/24 Volt	yes
A2C53210958	white	-60A to +60A	AMP	60 mV	12/24 Volt	yes
A2C53210956	white	-150A to +150A	AMP	60 mV	12/24 Volt	yes

* "No. unpacked" is not a order number.

Accessories:

A2C59510854	VL Mounting Kit (studs and brackets) 52, 85, 110mm
A2C59510864	VL Mounting bracket flush mount
A2C53215640	VL Sealing Ring 52mm flush mount
A2C59510847	Bush housing, 8-pin
A2C53324664	Protective connector cap, 8-pin
Tyco No. 539635-1	Hand pliers
Tyco No. 539682-2	Tool for hand pliers.
Tyco No. 1355718-1	Single contacts 0.14 – 0.22 mm ² tin plated
Tyco No. 963729-1	Single contacts 0.5 – 0.75 mm ² tin plated
Tyco No. 1355717-1	Strip 0.14 – 0.22 mm ² tin plated
Tyco No. 928999-1	Strip 0.25 – 0.5 mm ² tin plated
Tyco No. 963715-1	Strip 0.5 – 0.75 mm ² tin plated

Bezels 52mm

	Black	Chrome	White
Flat	A2C53186040	A2C53186023	A2C53186022
Round	A2C53186027	A2C53186029	A2C53186028
Triangle	A2C53186024	A2C53186026	A2C53186025