



- Ammeters in various versions, for Ex i circuits and Ex e enclosures
- Quicker comparison of measured values using externally adjustable red pointers on the device
- Selection of different current measuring ranges of between 0 and 20 mA or 4 to 20 mA

E4

WebCode **8402B**



R. STAHL Series 8402C6 ammeters are installed in Ex e type of protection enclosures. They provide measured values for Ex i circuits which can be quickly compared with the desired values via a red pointer affixed on the outside. The devices work with a moving iron movement with accuracy class 2.5.

	IECEX / ATEX					
Zone	0	1	2	20	21	22
Installation in		•	•		•	•

Selection Table				
Product Description	Moving coil ammeter Direct measuring For Ex i electrical circuits ammeter			
Scale	Movement	Product Type	Art. No.	Weight kg
0 to 20 mA	0 to 20 mA	8402C6-020	262236	0.220
0 to 100%	0 to 20 mA	8402C6-020	267133	0.220
0 to 100%	4 to 20 mA	8402C6-420	267110	0.220
4 to 20 mA	4 to 20 mA	8402C6-420	262237	0.220

Technical Data	
Explosion Protection	
Scope of validity	European Union (ATEX) IECEX
IECEX gas explosion protection	Ex ib IIC T6 ... T4 Gb
ATEX gas explosion protection	Ⓔ II 2 G Ex ib IIC T6 ... T4 Gb
Certificates	ATEX (SIQ), Brazil (ULB), EAC (ENDCE), IECEX (SIQ), Korea (KGS)
Safety Data	
Internal capacitance C _i	0 nF
Internal inductance L _i	90 µH
Electrical Data	
Rated insulation voltage	300 V
Rated operational current for AC	0.02 A
Internal resistance R _i	3 Ω
Max. short-circuit current	160 mA
Overload capacity	without

Technical Data
Ambient Conditions

Ambient temperature	-40 °C ... +40 °C (T6) -40 °C ... +55 °C (T5) -40 °C ... +70 °C (T4)
Ambient temperature note	T6: $-40\text{ °C} \leq T_{\text{amb}} \leq +40\text{ °C}$ T5: $-40\text{ °C} \leq T_{\text{amb}} \leq +55\text{ °C}$ T4: $-40\text{ °C} \leq T_{\text{amb}} \leq +70\text{ °C}$

Use at the height of 2000 m

Degree of contamination 3


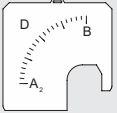
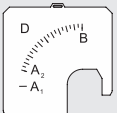
Mechanical Data

Degree of protection (IP)	IP54
Degree of protection (IP) terminals	IP20
Enclosure material	Polyamide
Silicone-free	Yes
Pane material	Glass
Terminals	Screw connector (strain-relief clamp)
Max. solid connection cross section	1 mm ²
Max. connection cross section, solid	6 mm ²
Min. connection cross-section, finely stranded	1 mm ²
Max. connection cross-section, finely stranded	4 mm ²
Stripping length	10 mm
Max. tightening torque	1.5 Nm
Accuracy class	2.5

Mounting / Installation

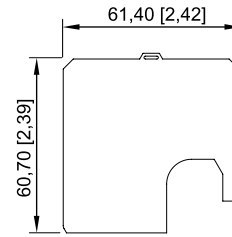
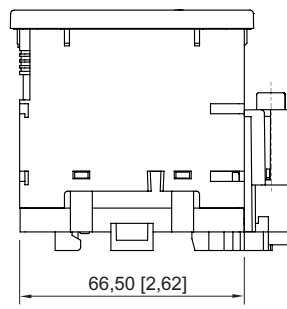
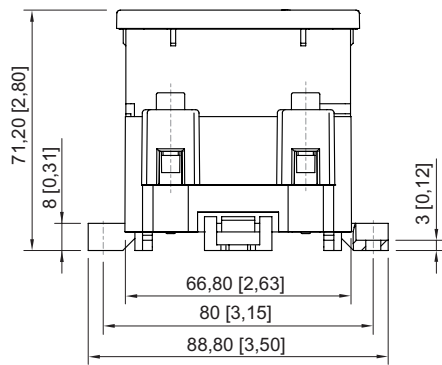
Mounting	Variant 1: Engage on DIN rail Variant 2: Mounting with screws on mounting plate
Mounting orientation	Vertical

Spare Parts

Figure	Description	Art. No.	Weight kg	
Calotte				
	72 x 72 mm calotte [2.83 x 2.83"]; IP66	155942	0.025	
Push-in scale according to specification				
	Mandatory information at 0 to 20 mA A ₂ = Measuring range start value B = Measuring range final value D = Unit	A ₂ , B, D	265188	-
	Mandatory information at 4 to 20 mA A ₁ = Zero point A ₂ = Measuring range start value B = Measuring range final value D = Unit	A ₁ , A ₂ , B, D	302951	-

Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations

E4



Push-in scale for ammeters and voltmeters Series 8402, 8403, 8404 and 8407

