- 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

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
0 to 20 mA	0 to 20 mA	8402C6-020	262236	220 g
0 to 100%	0 to 20 mA	8402C6-020	267133	220 g
0 to 100%	4 to 20 mA	8402C6-420	267110	220 g
4 to 20 mA	4 to 20 mA	8402C6-420	262237	220 g

Technical Data

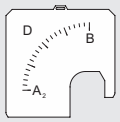
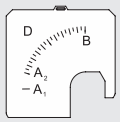
Explosion Protection	
Scope of validity	European Union (ATEX) IECEx
IECEx gas explosion protection	Ex ib IIC T6 ... T4 Gb
ATEX gas explosion protection	Ⓔx II 2 G Ex ib IIC T6 ... T4 Gb
Certificates	ATEX (SIQ), Brazil (ULB), IECEx (SIQ), Korea (KTL)
Safety Data	
Internal capacitance C_i	0 nF
Internal 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

Ammeter for Ex i circuits
Series 8402C6

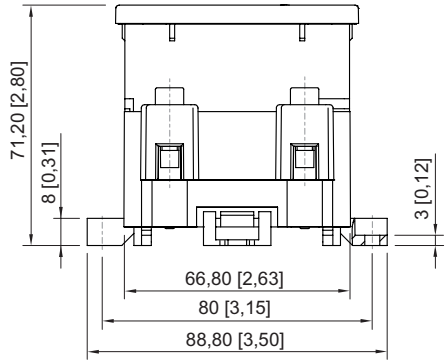
Technical Data

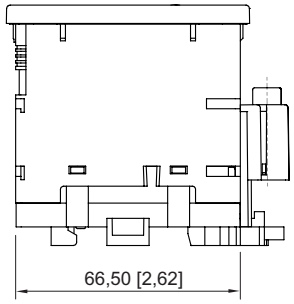
Ambient Conditions	
Ambient temperature	-40 °C ... +40 °C (T6) -40 °C ... +55 °C (T5) -40 °C ... +70 °C (T4)
Ambient temperature note	T6: -40 °C ≤ T_{amb} ≤ +40 °C T5: -40 °C ≤ T_{amb} ≤ +55 °C T4: -40 °C ≤ T_{amb} ≤ +70 °C
Use at the height of	2000 m
Degree of contamination	3
Mechanical Data	
Degree 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)
Min. connection cross section, solid	1 mm²
Max. connection cross section, solid	6 mm²
Min. connection cross-section, finely stranded	1 mm²
Max. connection cross-section, finely stranded	4 mm²
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

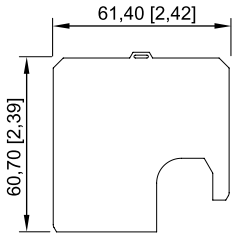
Spare Parts

Figure	Description		Art. No.	Weight
Calotte				
	72 x 72 mm calotte [2.83 x 2.83 "]; IP66		155942	25 g
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	10 g

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







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