



- Various versions of ammeters, for Ex e enclosures
- Quick comparison of measured values using externally adjustable red pointer on the device
- Selection of various current measuring ranges

E4

MY R. STAHL 8405B



R. STAHL Series 8405C6 ammeters are installed in enclosures with Ex e type of protection. They provide measured values for the current which can be quickly compared with the target values via a red pointer affixed on the outside. The devices use a moving iron movement with accuracy class 2.5.

| | IECEx / ATEX | | | | | |
|-----------------|--------------|---|---|----|----|----|
| Zone | 0 | 1 | 2 | 20 | 21 | 22 |
| Installation in | | • | • | | | |

| Selection Table | | | | | | |
|---------------------------------------|-----------|--|---------------------------|--------------|----------|--------|
| Product description Overload scale | | Moving iron ammeter Direct measuring 2x | | | | |
| Scale | Movement | Rated operational current for AC | Overload capacity | Product Type | Art. No. | Weight |
| 0 to 1/2 A | 0 to 1 A | 1 A | 50 x I _N 1 sec | 8405C6-1-2 | 262952 | 140 g |
| 0 to 4/8 A | 0 to 4 A | 4 A | 50 x I _N 1 sec | 8405C6-4-2 | 262955 | 140 g |
| 0 to 10/20 A | 0 to 10 A | 10 A | 50 x I _N 1 sec | 8405C6-10-2 | 262958 | 140 g |
| 0 to 15/30 A | 0 to 15 A | 15 A | 30 x U _N 1 sec | 8405C6-15-2 | 262959 | 140 g |
| Product description Overload scale | | Moving iron ammeter For transducer 2x | | | | |
| Scale | Movement | Rated operational current for AC | Overload capacity | Product Type | Art. No. | Weight |
| without | 0 to 1 A | 1 A | 50 x I _N 1 sec | 8405C6-1T-2 | 262953 | 140 g |
| without | 0 to 5 A | 5 A | 50 x I _N 1 sec | 8405C6-5T-2 | 262956 | 140 g |
| Product description Overload scale | | Moving iron ammeter For transducer 5x | | | | |
| Scale | Movement | Rated operational current for AC | Overload capacity | Product Type | Art. No. | Weight |
| without | 0 to 1 A | 1 A | 50 x I _N 1 sec | 8405C6-1T-5 | 262954 | 140 g |
| without | 0 to 5 A | 5 A | 50 x I _N 1 sec | 8405C6-5T-5 | 262957 | 140 g |

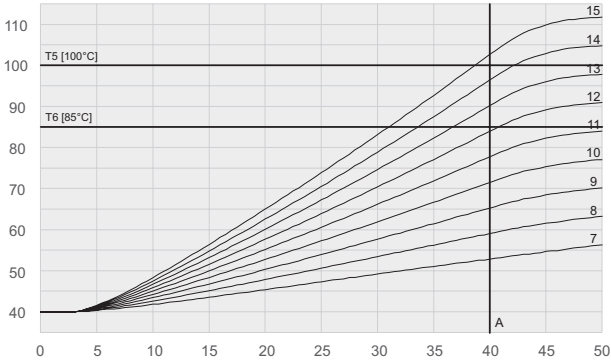
Moving iron ammeter for transducer: Please order scales separately
Lens not included in the delivery

| Technical Data | | | |
|--|--|--|--|
| Variant | 8405C6-... | 8405C6-10-2 | 8405C6-15-2 |
| Explosion Protection | | | |
| Area of application | European Union (ATEX) IECEX | European Union (ATEX) IECEX | European Union (ATEX) IECEX |
| IECEX gas explosion protection | Ex eb IIC T6 ... T4 Gb | Ex eb mb IIC T6 ... T4 Gb | Ex eb mb IIC T6 ... T4 Gb |
| IECEX firedamp protection | Ex eb I Mb | Ex eb mb I Mb | Ex eb mb I Mb |
| ATEX gas explosion protection | Ⓔ II 2 G Ex eb IIC T6 ... T4 Gb | Ⓔ II 2 G Ex eb mb IIC T6 ... T4 Gb | Ⓔ II 2 G Ex eb mb IIC T6 ... T4 Gb |
| ATEX firedamp protection | Ⓔ I M2 Ex eb I Mb | Ⓔ I M2 Ex eb mb I Mb | Ⓔ I M2 Ex eb mb I Mb |
| Certificates | ATEX (SIQ), Brazil (ULB), IECEX (SIQ), Korea (KGS) | ATEX (SIQ), Brazil (ULB), IECEX (SIQ), Korea (KGS) | ATEX (SIQ), Brazil (ULB), IECEX (SIQ), Korea (KGS) |
| Explosion protection note | For product label, see scope of validity. | For product label, see scope of validity. | For product label, see scope of validity. |
| Electrical Data | | | |
| Rated insulation voltage | 690 V | 690 V | 690 V |
| Frequency | 50/60 Hz AC, DC | 50/60 Hz AC, DC | 50/60 Hz AC, DC |
| Power dissipation | 0.67 VA | 0.67 VA | 0.67 VA |
| Ambient Conditions | | | |
| Ambient temperature | -40 °C ... +40 °C (T6) -40 °C ... +55 °C (T5) -40 °C ... +70 °C (T4) | -40 °C ... +40 °C (T6) -40 °C ... +55 °C (T5) -40 °C ... +70 °C (T4) | -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: $-40\text{ °C} \leq T_{\text{amb}} \leq +70\text{ °C}$ | 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: $-40\text{ °C} \leq T_{\text{amb}} \leq +70\text{ °C}$ | 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 | 2000 m | 2000 m |
| Degree of pollution | 3 | 3 | 3 |
| Notes | Temperature class depending on the starting current (overload – time); see online at r-stahl.com. WebCode 8405B | | |
| Mechanical Data | | | |
| Degree of protection (IP) | IP54 | IP54 | IP54 |
| Degree of protection (IP) terminals | IP20 | IP20 | IP20 |
| Enclosure material | Polycarbonate | Polycarbonate | Polycarbonate |
| Silicone-free | No | No | No |
| Pane material | Glass | Glass | Glass |
| Terminals | Screw connector (strain-relief clamp) | Screw connector (strain-relief clamp) | Screw connector (strain-relief clamp) |
| Min. connection cross section, solid | 2,5 mm ² | 2,5 mm ² | 4 mm ² |
| Max. connection cross section, solid | 10 mm ² | 10 mm ² | 10 mm ² |
| Max. connection cross-section, finely stranded | 6 mm ² | 6 mm ² | 6 mm ² |
| Accuracy class | 2.5 | 2.5 | 2.5 |
| Max. tightening torque | 1.5 Nm | 1.5 Nm | 1.5 Nm |
| Stripping length | 10 mm | 10 mm | 10 mm |
| Mounting / Installation | | | |
| Mounting | Variant 1: Engage on DIN rail Variant 2: Mounting with screws on mounting plate (assembly accessories included in delivery) | Variant 1: Engage on DIN rail Variant 2: Mounting with screws on mounting plate (assembly accessories included in delivery) | Variant 1: Engage on DIN rail Variant 2: Mounting with screws on mounting plate (assembly accessories included in delivery) |
| Mounting orientation | Vertical | Vertical | Vertical |

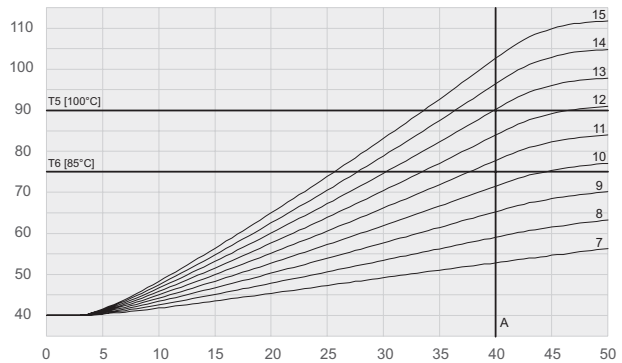
Technical Drawings – Subject to Alterations

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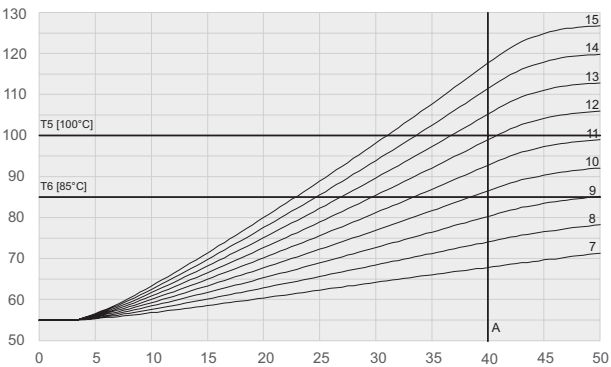
8405/6-1T-5-Ta = 40°C



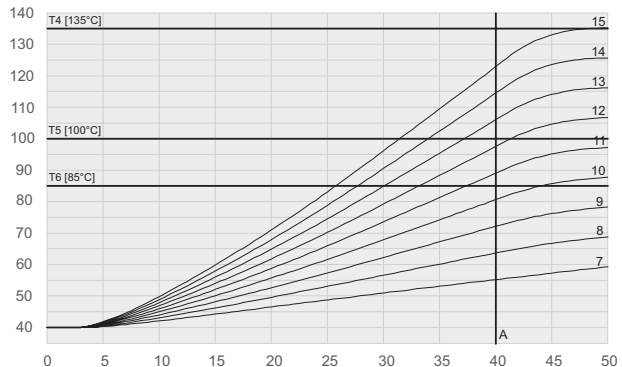
8405/6-1T-5-Ta = 50°C



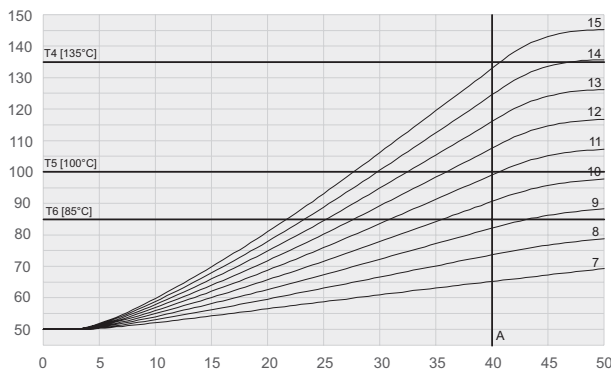
8405/6-1T-5-Ta = 55°C



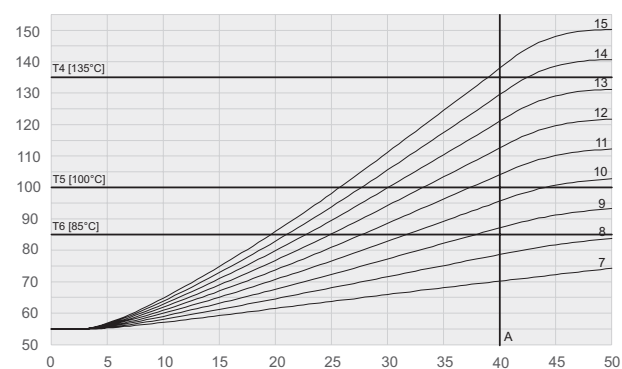
8405/6-5T-5-Ta = 40°C




8405/6-5T-5-Ta = 50°C



8405/6-5T-5-Ta = 55°C



Spare Parts

| Figure | Description | Art. No. | Weight |
|---|----------------------------------|----------|--------|
|  | Calotte [2.52 x 2.52 inch]; IP66 | 155940 | 70 g |

| Spare Parts | | | | |
|-----------------------|-------------------|------------------|----------|--------|
| Figure | Description | | Art. No. | Weight |
| Push-in scales | | | | |
| | Overload: 2 times | Scale: 0 to 1 A | 265871 | 1 g |
| | Overload: 5 times | Scale: 0 to 1 A | 265824 | 1 g |
| | Overload: 2 times | Scale: 0 to 2 A | 265825 | 1 g |
| | Overload: 5 times | Scale: 0 to 2 A | 265826 | 1 g |
| | Overload: 2 times | Scale: 0 to 5 A | 265827 | 1 g |
| | Overload: 5 times | Scale: 0 to 5 A | 265828 | 1 g |
| | Overload: 2 times | Scale: 0 to 10 A | 265829 | 1 g |
| | Overload: 5 times | Scale: 0 to 10 A | 265830 | 1 g |
| | Overload: 2 times | Scale: 0 to 15 A | 265832 | 1 g |
| | Overload: 5 times | Scale: 0 to 15 A | 265831 | 1 g |
| | Overload: 2 times | Scale: 0 to 20 A | 265833 | 1 g |
| | Overload: 5 times | Scale: 0 to 20 A | 265834 | 1 g |

| Spare Parts | | | | |
|---|---------------------------------------|--|----------|--------|
| Figure | Description | | Art. No. | Weight |
| Push-in scales | | | | |
|  | Overload: 2 times Scale: 0 to 25 A | | 265835 | 1 g |
|  | Overload: 5 times Scale: 0 to 25 A | | 265836 | 1 g |
|  | Overload: 2 times Scale: 0 to 30 A | | 265837 | 1 g |
|  | Overload: 5 times Scale: 0 to 30 A | | 265838 | 1 g |
|  | Overload: 2 times Scale: 0 to 40 A | | 265839 | 1 g |
|  | Overload: 5 times Scale: 0 to 40 A | | 265840 | 1 g |
|  | Overload: 2 times Scale: 0 to 50 A | | 265851 | 1 g |
|  | Overload: 5 times Scale: 0 to 50 A | | 265852 | 1 g |
|  | Overload: 2 times Scale: 0 to 60 A | | 265853 | 1 g |
|  | Overload: 5 times Scale: 0 to 60 A | | 265854 | 1 g |
|  | Overload: 2 times Scale: 0 to 75 A | | 265855 | 1 g |
|  | Overload: 5 times Scale: 0 to 75 A | | 265856 | 1 g |

| Spare Parts | | | | |
|-----------------------|-------------------|-------------------|----------|--------|
| Figure | Description | | Art. No. | Weight |
| Push-in scales | | | | |
| | Overload: 2 times | Scale: 0 to 100 A | 265857 | 1 g |
| | Overload: 5 times | Scale: 0 to 100 A | 265858 | 1 g |
| | Overload: 2 times | Scale: 0 to 150 A | 265859 | 1 g |
| | Overload: 5 times | Scale: 0 to 150 A | 265860 | 1 g |
| | Overload: 2 times | Scale: 0 to 200 A | 265861 | 1 g |
| | Overload: 5 times | Scale: 0 to 200 A | 265862 | 1 g |
| | Overload: 2 times | Scale: 0 to 250 A | 265863 | 1 g |
| | Overload: 5 times | Scale: 0 to 250 A | 265864 | 1 g |
| | Overload: 2 times | Scale: 0 to 300 A | 265865 | 1 g |
| | Overload: 5 times | Scale: 0 to 300 A | 265866 | 1 g |
| | Overload: 2 times | Scale: 0 to 400 A | 265867 | 1 g |
| | Overload: 5 times | Scale: 0 to 400 A | 265868 | 1 g |

| Spare Parts | | | | |
|--|---|----------|--------|--|
| Figure | Description | Art. No. | Weight | |
| Push-in scales | | | | |
| | Overload: 2 times Scale: 0 to 500 A | 265869 | 1 g | |
| | Overload: 5 times Scale: 0 to 500 A | 265870 | 1 g | |
| Push-in scale according to specification | | | | |
| | Mandatory information: A ₂ = measuring range starting value B = measuring range end value C = overload value D = unit | 265261 | - | |

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

