

SIMATIC S7-1200, ANALOG OUTPUT SB 1232, 1 AO, +/- 10VDC  
(12 BIT RES.) OR 0 - 20 MA (11 BIT RES)



| Input current                    |                                                                                        |
|----------------------------------|----------------------------------------------------------------------------------------|
| from backplane bus 5 V DC, typ.  | 15 mA                                                                                  |
| Output voltage                   |                                                                                        |
| Power supply to the transmitters |                                                                                        |
| • Supply current, max.           | 25 mA                                                                                  |
| Power loss                       |                                                                                        |
| Power loss, typ.                 | 1.5 W                                                                                  |
| Analog inputs                    |                                                                                        |
| Number of analog inputs          | 0                                                                                      |
| Analog outputs                   |                                                                                        |
| Number of analog outputs         | 1                                                                                      |
| Cycle time (all channels) max.   | Voltage: 300 $\mu$ S (R), 750 $\mu$ S (1 $\mu$ F) Current: 600 ms (1 mH); 2 ms (10 mH) |
| Output ranges, voltage           |                                                                                        |
| • -10 V to +10 V                 | Yes                                                                                    |
| Output ranges, current           |                                                                                        |
| • 0 to 20 mA                     | Yes                                                                                    |

|                                                     |                                                                            |
|-----------------------------------------------------|----------------------------------------------------------------------------|
| Load impedance (in rated range of output)           |                                                                            |
| • with voltage outputs, min.                        | 1 000 $\Omega$                                                             |
| • with current outputs, max.                        | 600 $\Omega$                                                               |
| Cable length                                        |                                                                            |
| • shielded, max.                                    | 10 m; shielded, twisted pair                                               |
| Analog value generation                             |                                                                            |
| Measurement principle                               | Differential                                                               |
| Smoothing of measured values                        |                                                                            |
| • parameterizable                                   | Yes                                                                        |
| Errors/accuracies                                   |                                                                            |
| Temperature error (relative to output range), (+/-) | 25 °C $\pm 0.5\%$ , to 55 °C $\pm 1\%$                                     |
| Interrupts/diagnostics/status information           |                                                                            |
| Alarms                                              | Yes                                                                        |
| Diagnostic functions                                | Yes                                                                        |
| Diagnostics indication LED                          |                                                                            |
| • for status of the outputs                         | Yes                                                                        |
| Degree and class of protection                      |                                                                            |
| Degree of protection acc. to EN 60529               |                                                                            |
| • IP20                                              | Yes                                                                        |
| Standards, approvals, certificates                  |                                                                            |
| CE mark                                             | Yes                                                                        |
| CSA approval                                        | Yes                                                                        |
| FM approval                                         | Yes                                                                        |
| RCM (formerly C-TICK)                               | Yes                                                                        |
| Ambient conditions                                  |                                                                            |
| Free fall                                           |                                                                            |
| • Fall height, max.                                 | 0.3 m; five times, in product package                                      |
| Ambient temperature during operation                |                                                                            |
| • permissible temperature range                     | 0 °C to 55 °C horizontal installation, 0 °C to 45 °C vertical installation |
| • min.                                              | 0 °C                                                                       |
| • max.                                              | 55 °C                                                                      |
| Ambient temperature during storage/transportation   |                                                                            |
| • min.                                              | -40 °C                                                                     |
| • max.                                              | 70 °C                                                                      |
| Air pressure acc. to IEC 60068-2-13                 |                                                                            |
| • Storage/transport, min.                           | 660 hPa                                                                    |
| • Storage/transport, max.                           | 1 080 hPa                                                                  |
| Relative humidity                                   |                                                                            |

• permissible range (without condensation) at 25 °C 95 %

#### Extended ambient conditions

##### Pollutant concentrations

— SO2 at RH < 60% without condensation S02: < 0.5 ppm; H2S: < 0.1 ppm; RH < 60% condensation-free

#### Mechanics/material

##### Enclosure material (front)

• Plastic Yes

#### Dimensions

Width 38 mm

Height 62 mm

Depth 21 mm

#### Weights

Weight, approx. 40 g

**last modified:** 10/28/2016