



\*\*\*Spare part\*\*\* SIMATIC S7-200, Analog output EM 232, only for S7-22X CPU, 2 AO, +/-10 V DC, 12 bit converter

| Input current                                          |                                |
|--------------------------------------------------------|--------------------------------|
| from external supply (24 V DC), max.                   | 70 mA                          |
| from backplane bus 5 V DC, max.                        | 20 mA                          |
| Power loss                                             |                                |
| Power loss, typ.                                       | 2 W                            |
| Analog outputs                                         |                                |
| Number of analog outputs                               | 2                              |
| Output ranges, voltage                                 |                                |
| • -10 V to +10 V                                       | Yes                            |
| Output ranges, current                                 |                                |
| • 4 mA to 20 mA                                        | Yes                            |
| Load impedance (in rated range of output)              |                                |
| • with voltage outputs, min.                           | 5 kΩ                           |
| • with current outputs, max.                           | 0.5 kΩ                         |
| Analog value generation for the outputs                |                                |
| Integration and conversion time/resolution per channel |                                |
| • Resolution with overrange (bit including sign), max. | 12 bit; U / 12 bit, I / 11 bit |
| Settling time                                          |                                |
| • for voltage output                                   | 100 μs                         |
| • for current output                                   | 2 ms                           |
| Displayable conversion value range                     |                                |
| • bipolar signals                                      | -32 000 to +32 000             |
| • unipolar signals                                     | <a href="#">0 to 32 000</a>    |
| Errors/accuracies                                      |                                |
| Operational error limit in overall temperature range   |                                |
| • Voltage, relative to output range, (+/-)             | 2 %                            |
| • Current, relative to output range, (+/-)             | 2 %                            |
| Basic error limit (operational limit at 25 °C)         |                                |
| • Voltage, relative to output range, (+/-)             | 0.5 %                          |
| • Current, relative to output range, (+/-)             | 0.5 %                          |
| Potential separation                                   |                                |
| Potential separation analog outputs                    |                                |
| • Potential separation analog outputs                  | No                             |
| connection method                                      |                                |
| Plug-in I/O terminals                                  | No                             |
| Dimensions                                             |                                |
| Width                                                  | 46 mm                          |
| Height                                                 | 80 mm                          |
| Depth                                                  | 62 mm                          |
| Weights                                                |                                |

|                 |       |
|-----------------|-------|
| Weight, approx. | 148 g |
|-----------------|-------|

| Classifications |        |         |                |
|-----------------|--------|---------|----------------|
|                 |        | Version | Classification |
|                 | eClass | 14      | 27-24-22-01    |
|                 | eClass | 12      | 27-24-22-01    |
|                 | eClass | 9.1     | 27-24-22-01    |
|                 | eClass | 9       | 27-24-22-01    |
|                 | eClass | 8       | 27-24-22-01    |
|                 | eClass | 7.1     | 27-24-22-01    |
|                 | eClass | 6       | 27-24-22-01    |
|                 | ETIM   | 9       | EC001420       |
|                 | ETIM   | 8       | EC001420       |
|                 | ETIM   | 7       | EC001420       |
|                 | IDEA   | 4       | 3562           |
|                 | UNSPSC | 15      | 32-15-17-05    |

| Approvals / Certificates                                                                                                                                      |                                                                                                                                                |                                                                                                                                                                                                                  |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| General Product Approval                                                                                                                                      | For use in hazardous locations                                                                                                                 | Maritime application                                                                                                                                                                                             |  |
| <div>  <div>EG-Konf.</div> </div> <div> <a href="#">Miscellaneous</a> </div> | <div>  <div>ATEX</div> </div> <div> <a href="#">FM</a> </div> | <div>  <div>ABS</div> </div> <div>  </div> |  |

| Maritime application                                                                                            |                                                                                                                |                                                                                                                 |                                                                                                                  |                                                                 |
|-----------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|
| <div>  <div>DNV</div> </div> | <div>  <div>GL</div> </div> | <div>  <div>LRS</div> </div> | <div>  <div>RMRS</div> </div> | <div> <a href="#">CCS (China Classification Society)</a> </div> |

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