

# Product data sheet

Specifications



Smart RTU, SCADAPack 500E,  
DNP3 SAv2, with cCSAus  
Hazardous location / ATEX/ IECEx  
certification, 18 DI, 6 AI, 9 DO, 2 AO

SCADAPACK\_535E

## Main

|                           |                                                                         |
|---------------------------|-------------------------------------------------------------------------|
| Range of product          | SCADAPack 500E                                                          |
| Product or component type | Remote terminal unit                                                    |
| Market segment            | Water and waste water                                                   |
| Processor name            | ARM Cortex-A9 dual core at 600 MHz                                      |
| Memory type               | 4 MB SRAM<br>128 MB RAM DDR3<br>128 MB NAND flash<br>10 MB data storage |
| Range compatibility       | EcoStruxure Geo SCADA Expert                                            |

## Complementary

|                             |                                                                                                                                                                                   |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Communication service       | DNP3 secure authentication SAv2                                                                                                                                                   |
| Communication port protocol | Modbus RTU<br>Modbus TCP client<br>Modbus TCP server<br>DNP3 level 4<br>NTP client<br>NTP server<br>FTP server<br>Telnet server<br>DF1 client<br>BOOTP server<br>UDP client       |
| Integrated connection type  | 3 Ethernet RJ45, 10/100BASE-T<br>2 serial port for RS232 - 115.2 kbit/s<br>2 serial port for RS232/RS485 - 115.2 kbit/s<br>1 USB 2.0 port USB type A<br>1 USB 2.0 port USB type B |
| Input type                  | Digital x18 inputs,, 12...24 V DC<br>Analog x8 inputs,<br>Counter x8 inputs,                                                                                                      |
| Analogue input type         | Current, input range: 0...20 mA<br>Current, input range: 4...20 mA<br>Voltage, input range: 0...5 V<br>Voltage, input range: 1...5 V                                              |
| Output type                 | 1 digital, 30 V, 0.5 A sinking MOSFET output<br>2 digital Form C<br>6 digital Form A<br>2 analog                                                                                  |
| Analogue output type        | Current 0...20 mA<br>Current 4...20 mA                                                                                                                                            |
| Counting frequency          | 2 x 10 kHz<br>4 x 1.5 kHz<br>4 x 150 Hz                                                                                                                                           |

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

|                                        |                                                                                                                                                                                                                                                             |
|----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Maximum number of I/O expansion module | 5304 for analog output<br>5405 for digital input<br>5414 for digital input<br>5415 for digital output<br>5506 for analog input<br>5606 for expansion I/O<br>5607 for expansion I/O<br>6601 for expansion I/O<br>6602 for HART I/O<br>6607 for expansion I/O |
| Input voltage                          | 12...30 V DC                                                                                                                                                                                                                                                |
| Power consumption in W                 | 5 W                                                                                                                                                                                                                                                         |
| Width                                  | 181.7 mm                                                                                                                                                                                                                                                    |
| Length                                 | 150.5 mm                                                                                                                                                                                                                                                    |
| Height                                 | 87 mm                                                                                                                                                                                                                                                       |
| Net weight                             | 1.2 kg                                                                                                                                                                                                                                                      |

## Environment

|                                       |                                                                                                                                                                                                                                                                                |
|---------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Standards                             | UL 508<br>UL 61010-1<br>UL 61010-2-020<br>FCC CFR 47 part 15<br>ICES-003                                                                                                                                                                                                       |
| Product certifications                | IECEX<br>ATEX class1 zone 2<br>CSA<br>CE<br>cCSAus HazLoc Class I Division 2 Group A<br>cCSAus HazLoc Class I Division 2 Group B<br>cCSAus HazLoc Class I Division 2 Group C<br>cCSAus HazLoc Class I Division 2 Group D<br>cCSAus OL                                          |
| Marking                               | CE<br>RCM<br>EAC<br>UL<br>FCC                                                                                                                                                                                                                                                  |
| Ambient air temperature for operation | -40...70 °C when the unit is mounted horizontally on a vertical surface<br>-40...65 °C when the unit is mounted in any other position<br>-40...70 °C when the unit is mounted horizontally on a vertical surface<br>-40...65 °C when the unit is mounted in any other position |
| Ambient air temperature for storage   | -40...85 °C<br>-40...85 °C                                                                                                                                                                                                                                                     |
| Relative humidity                     | 5...95 % non-condensing                                                                                                                                                                                                                                                        |
| Pollution degree                      | 2                                                                                                                                                                                                                                                                              |
| Vibration resistance                  | 7 mm constant amplitude<br>1 gn constant acceleration                                                                                                                                                                                                                          |
| Shock resistance                      | 15 gn conforming to IEC 60068-2-27                                                                                                                                                                                                                                             |

## Recommended replacement(s)