

# Product datasheet

Specifications

## RS485 interface 2 wires ACE949-2 for Sepam 20, 40, 60, 80



59642

⚠ To be discontinued on: 31 Dec 2026

⚠ To be end-of-service on: 31 Dec 2030

⚠ To be discontinued

EAN Code: 3303430596424

### Main

Range of product	Sepam series 60 Sepam series 80 Sepam series 40 Sepam series 20 Sepam series 48 Sepam series 80 NPP
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Device short name	ACE949-2
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### Complementary

Communication port protocol	Modbus RTU network: E-LAN interface: RS485 - 2-wire Modbus RTU network: S-LAN interface: RS485 - 2-wire
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Local signalling	LED for link activity (front face)
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[Us] rated supply voltage	12 V DC tolerance: +/- 10 % 24 V DC tolerance: +/- 10 %
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Maximum supply current	16 mA: receiving mode 40 mA: maximum in sending mode
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Mounting mode	Fixed
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Mounting support	Symmetrical DIN rail
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Height	88 mm
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Width	72 mm
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Depth	30 mm
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Net weight	0.1 kg
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Mechanical robustness	Earthquakes in operation (level: 2) : 1 Gn (vertical axes) conforming to IEC 60255-21-3 Earthquakes in operation (level: 2) : 2 Gn (horizontal axes) conforming to IEC 60255-21-3 Jolts de-energized (level: 2) : 20 Gn/16 ms conforming to IEC 60255-21-2 Shocks de-energized (level: 2) : 27 Gn/11 ms conforming to IEC 60255-21-2 Shocks in operation (level: 2) : 10 Gn/11 ms conforming to IEC 60255-21-2 Vibrations de-energized (level: 2) : 2 Gn, 10 Hz...150 Hz conforming to IEC 60255-21-1 Vibrations in operation (level: 2) : 1 Gn, 10 Hz...150 Hz conforming to IEC 60255-21-1 Vibrations in operation (level: Fc) : 2 Hz...13.2 Hz, a = +/- 1 mm conforming to IEC 60068-2-6
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Maximum cable distance between devices	10 Devices <180 m at 12 V DC 10 Devices <750 m at 24 V DC 20 Devices <160 m at 12 V DC 20 Devices <450 m at 24 V DC 25 Devices <125 m at 12 V DC 25 Devices <375 m at 24 V DC 5 Devices <1000 m at 24 V DC 5 Devices <320 m at 12 V DC
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<b>Auxiliary connection terminal</b>	Earthing terminal: screw-type connector cable 2.5...50 mm <sup>2</sup> <0.2 m Earthing terminal: screw-type connector tinned copper braid 6...100 mm <sup>2</sup>
<b>Tightening torque</b>	Earthing terminal: 2.2 N.m

## Environment

<b>Electromagnetic compatibility</b>	<p>1 MHz damped oscillating wave: (immunity tests-conducted disturbances), 2.5 kV CM, 1 kV DM, conforming to IEC 60255-22-1</p> <p>1 MHz damped oscillating wave: (immunity tests-conducted disturbances), 2.5 kV CM, 2.5 kV DM, conforming to ANSI C37.90.1</p> <p>100 kHz damped oscillating wave: (immunity tests-conducted disturbances), 2.5 kV CM, 1 kV DM, conforming to IEC 61000-4-12</p> <p>Conducted disturbance emission: (emission tests), conforming to IEC 60255-25</p> <p>Conducted disturbance emission: (emission tests), A, conforming to EN 55022</p> <p>Disturbing field emission: (emission tests), conforming to IEC 60255-25</p> <p>Disturbing field emission: (emission tests), A, conforming to EN 55022</p> <p>Electrostatic discharge: (immunity tests-radiated disturbances), 8 kV air, 4 kV contact, conforming to ANSI C37.90.3</p> <p>Electrostatic discharge: (immunity tests-radiated disturbances), 8 kV air, 6 kV contact, conforming to IEC 60255-22-2</p> <p>Fast transient bursts: (immunity tests-conducted disturbances), 4kV, 2.5 kHz, conforming to ANSI C37.90.1</p> <p>Fast transient bursts: (immunity tests-conducted disturbances), A and B, 4kV, 2.5 kHz/2 kV, 5 kHz, conforming to IEC 60255-22-4</p> <p>Fast transient bursts: (immunity tests-conducted disturbances), IV, 4kV, 2.5 kHz, conforming to IEC 61000-4-4</p> <p>Immunity to conducted RF disturbances: (immunity tests-conducted disturbances), III, 10 V, conforming to IEC 60255-22-6</p> <p>Immunity to magnetic fields at network frequency: (immunity tests-radiated disturbances), IV, 30 A/m (continuous)-300 A/m (1-3 s), conforming to IEC 61000-4-8</p> <p>Immunity to radiated fields: (immunity tests-radiated disturbances), 10 V/m, 80 MHz... 1 GHz, conforming to IEC 60255-22-3</p> <p>Immunity to radiated fields: (immunity tests-radiated disturbances), 35 V/m, 25 MHz... 1 GHz, conforming to ANSI C37.90.2</p> <p>Immunity to radiated fields: (immunity tests-radiated disturbances), III, 10 V/m, 80 MHz...2 GHz, conforming to IEC 61000-4-3</p> <p>Surges: (immunity tests-conducted disturbances), III, 2 kV CM, 1 kV DM, conforming to IEC 61000-4-5</p> <p>Voltage interruptions: (immunity tests-conducted disturbances), 100 % during 100 ms, conforming to IEC 60255-11</p>
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<b>Climatic withstand</b>	<p>Influence of corrosion/gaz test 2 (in operation) : 21 days, 75 % RH, 25 °C, 0.5 ppm H<sub>2</sub>S, 1 ppm SO<sub>2</sub> conforming to IEC 60068-2-60</p> <p>Influence of corrosion/gaz test 4 (in operation) : 21 days, 75 % RH, 25 °C, 0.01 ppm H<sub>2</sub>S, 0.2 ppm SO<sub>2</sub>, 0.2 ppm NO<sub>2</sub>, 0.01 ppm Cl<sub>2</sub> conforming to IEC 60068-2-60</p> <p>Continuous exposure to damp heat (in operation) : Cab: 10 days, 93 % RH, 40 °C conforming to IEC 60068-2-78</p> <p>Continuous exposure to damp heat (in storage) : Cab: 56 days, 93 % RH, 40 °C conforming to IEC 60068-2-78</p> <p>Continuous exposure to damp heat (in storage) : Db: 6 days, 95 % RH, 55 °C conforming to IEC 60068-2-30</p> <p>Exposure to cold (in operation) : Ad: - 25 °C conforming to IEC 60068-2-1</p> <p>Exposure to cold (in storage) : Ab: - 25 °C conforming to IEC 60068-2-1</p> <p>Exposure to dry heat (in operation) : Bd: 70 °C conforming to IEC 60068-2-2</p> <p>Exposure to dry heat (in storage) : Bb: 70 °C conforming to IEC 60068-2-2</p> <p>Salt mist (in operation) : Kb/2: 6 days conforming to IEC 60068-2-52</p> <p>Temperature variation with specified variation rate (in storage) : Nb: - 25 °C to 70 °C, 5 °C/min conforming to IEC 60068-2-14</p>
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<b>Ambient air temperature for operation</b>	-25...70 °C
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## Packing Units

<b>Unit Type of Package 1</b>	PCE
<b>Number of Units in Package 1</b>	1
<b>Package 1 Height</b>	6.000 cm
<b>Package 1 Width</b>	12.100 cm
<b>Package 1 Length</b>	18.300 cm
<b>Package 1 Weight</b>	145.400 g
<b>Unit Type of Package 2</b>	S02

<b>Number of Units in Package 2</b>	8
<b>Package 2 Height</b>	15.000 cm
<b>Package 2 Width</b>	30.000 cm
<b>Package 2 Length</b>	40.000 cm
<b>Package 2 Weight</b>	1.463 kg
<b>Unit Type of Package 3</b>	P12
<b>Number of Units in Package 3</b>	64
<b>Package 3 Height</b>	30.000 cm
<b>Package 3 Width</b>	80.000 cm
<b>Package 3 Length</b>	120.000 cm
<b>Package 3 Weight</b>	23.306 kg

## Contractual warranty

<b>Warranty</b>	18 months
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## Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.


[Environmental Data explained >](#)

[How we assess product sustainability >](#)

### Use Better

 <b>Materials and Substances</b>	
Packaging made with recycled cardboard	No
Packaging without single use plastic	No
<a href="#">EU RoHS Directive</a>	Pro-active compliance (Product out of EU RoHS legal scope)
REACH Regulation	<a href="#">REACH Declaration</a>

### Use Again

 <b>Repack and remanufacture</b>	
Take-back	No