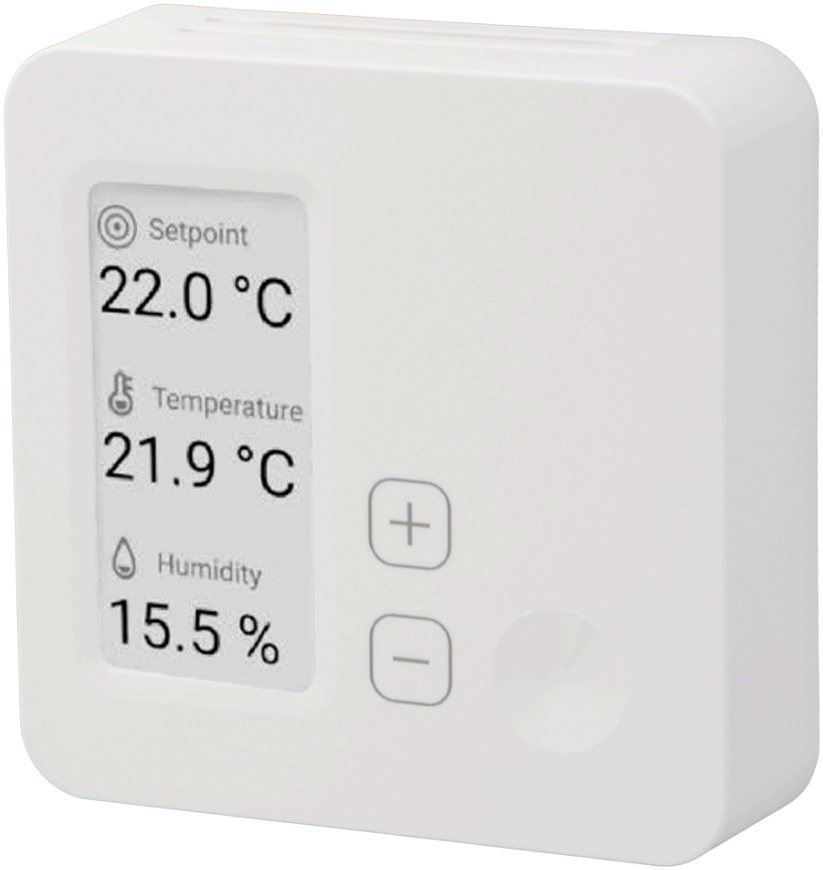
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DATA SHEET

ERS Interact

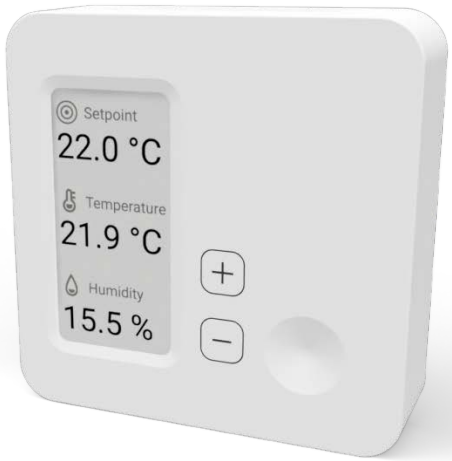
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ERS Interact series LoRa

LoRaWAN Wireless Sensor



The **ERS Interact LoRa** series of sensors are universal LoRaWAN® indoor climate sensors with a 2.13" E-paper display showing real-time sensor data. The Interact series includes up to three configurable touch buttons. These buttons can be assigned to different functions, and the display can be adapted for different applications.

The ERS Interact series are battery-powered devices and are designed to be wall-mounted. The sensors are equipped with NFC (Near Field Communication) for easy configuration with an NFC-enabled smartphone.

Product features

- LoRaWAN Certified CM
- 2.13 " E-paper display
- Temperature sensor
- Humidity sensor
- 3 programmable buttons
- NFC for configuration
- Configuration over the air
- Discrete and minimalistic design
- Custom Interface

Applications

- Indoor environment measuring
- Smart buildings
- Workplace management

Device specifications

Mechanical specifications	
Weight	53 - 60 g excluding batteries 70 - 95 g including batteries
Dimensions	76.2 x 76.2 x 22.5 mm
Enclosure	PC + ABS
Protection class	IP30

Operating conditions	
Temperature	0 to 50 °C
Humidity	0 to 85 % RH (non-condensing)
Operating Altitude	0 – 2000 m
Pollution Degree	Degree 2
Usage Enviroment	Indoor
Storage Temperature	-40 – 85 °C

ElektronikSystem i Umeå AB

Tvistevägen 48
907 36 Umeå
Sweden

+469010050
info@elsys.se

www.elsys.se
elsysumea

AKRIBIS · www.akribis.info · contacto@akribis.info

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Device Power Supply	
Battery Type	2 x 3.6V AA Lithium Batteries
Expected Battery Life	Up to 10 years (Depending on configurations and environment)

Radio / Wireless	
Wireless Technology	LoRaWAN® 1.0.4 Regional Parameters RP002 – RP1.0.3
Wireless Security	LoRaWAN® End-to-End encryption (AES-CTR), Data Integrity Protection (AES-CMAC)
LoRaWAN Device Type	Class A/C (configurable) End-device
Supported LoRaWAN® features	OTAA, ABP, ADR, Adaptive Channel Setup
Supported LoRaWAN® regions	EU868, IN865, US915, AU915, AS923, KR920
Link Budget	137 dBm (SF7) to 151 dBm (SF12)
RF Transmit Power	Max 14 dBm EIRP

Device Logging Function	
Sampling Interval	Configurable via NFC and downlink configuration
Data Upload Interval	Configurable via NFC and downlink configuration

Sensor Characteristics	
Temperature Range Temperature Resolution	0 to 50 °C 0.1 °C
Temperature Accuracy	±0.2 °C
Humidity Range	0 – 100 % RH
Humidity Resolution	1 % RH
Humidity Accuracy	± 2 % RH at 25 °C

User Interface	
LED	Functionality configurable via NFC and downlink configuration
App Support	Sensor Settings (Using NFC)

Conformity	
IC	ID: 26904-ERSD1
FCC	ID: 2ANX3-ERSD1
EMC	2014/30/EU
RED	2014/53/EU
LVD	2014/35/EU
RoHS	2011/65/EU + 2015/863
LoRa	1.0.4

Country of origin	
Product & Firmware Development	Sweden
Plastic casing	Sweden
Production	Sweden, Latvia, Lithuania

Ordering Information

ERSILITE-F-L	ERS Lite Flex LoRa
ERSILITE-C-L	ERS Lite Comfort LoRa
ER14505	AA 3.6V Lithium Battery ER14505

Product Information

	ERS Interact Lite Comfort	**ERS Interact Lite Flex**
2.13" display	x	x
NFC	x	x
Temp	x	x
Hum	x	x
Touch buttons	2 used	3 programmable
Configuration	Comfort	Customized

Document Revision History

Version	Description	Date
1.0	First version	2026-06-01

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info@elsys.se

www.elsys.se
elsysumea

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