EC Sense Selection Guide

6 models · downloadable datasheets also available per model on anchorsensor.com

TB200B-ES1-CH4S-10 — TB200B-ES1-CH4S-10 Methyl Mercaptan Detection Module

The EC Sense TB200B-ES1-CH4S-10 is an industrial-safety-grade smart digital gas sensor module for Methyl Mercaptan detection, with a 0 – 10 ppm range and 0.001 ppm resolution. The module uses the compact ES1 electrochemical sensor (40 × 30 × 12 mm including se…

Target Gas	Methyl Mercaptan
Detection Range	0 – 10 ppm
Resolution	0.001 ppm
Sensor Packaging	ES1
Order No. (UART)	04-TB200B-ES1-CH4S-10-01
Order No. (I²C)	04-TB200B-ES1-CH4S-10-I2C-01
Operating Principle	Solid Polymer Electrochemical Sensing Technology
Accuracy	± 5% (measurement value)
Repeatability	1%
Linearity	Linear
Long-Term Drift	< 5% / year
Expected Lifetime	> 5 years
Output Signal	UART (TTL 3.3 V) or I²C digital signal
UART Parameters	Baud rate 9600, 8 data bits, 1 stop bit; VCC red / GND black / RX yellow / TX green
I²C Parameters	Frequency ≤ 20 kHz, signal voltage 3.3 V; VCC red / GND black / SDA yellow / SCL green
Communication Mode	Active-upload and question-answer modes; Q&A is the default on power-up
Built-in Temperature Sensor	-20 ℃ to +70 ℃, ± 0.2 ℃ (typical)
Built-in Humidity Sensor	0 – 100% RH, ± 2% (typical)
Working Temperature	-40 ℃ to +55 ℃
Working Humidity	15 – 95% RH (non-condensing)
Working Pressure	Atmospheric pressure ± 10%
Size (Including Sensor)	40 × 30 × 12 mm
Size (Without Sensor)	40 × 30 × 5.6 mm
Weight	< 15 g (including sensor)
Cable Length	100 mm, special length by request
Warranty	12 months from the date of shipment

Every module is professionally calibrated with standard gas before shipment, with the calibration data stored in its flash chip — plug-and-play, no secondary gas calibration required. Refer to the dat

TB200B-ES1-CH4S-100 — TB200B-ES1-CH4S-100 Methyl Mercaptan Detection Module

The EC Sense TB200B-ES1-CH4S-100 is an industrial-safety-grade smart digital gas sensor module for Methyl Mercaptan detection, with a 0 – 100 ppm range and 0.01 ppm resolution. The module uses the compact ES1 electrochemical sensor (40 × 30 × 12 mm including s…

Target Gas	Methyl Mercaptan
Detection Range	0 – 100 ppm
Resolution	0.01 ppm
Sensor Packaging	ES1
Order No. (UART)	04-TB200B-ES1-CH4S-100-01
Order No. (I²C)	04-TB200B-ES1-CH4S-100-I2C-01
Operating Principle	Solid Polymer Electrochemical Sensing Technology
Accuracy	± 5% (measurement value)
Repeatability	1%
Linearity	Linear
Long-Term Drift	< 5% / year
Expected Lifetime	> 5 years
Output Signal	UART (TTL 3.3 V) or I²C digital signal
UART Parameters	Baud rate 9600, 8 data bits, 1 stop bit; VCC red / GND black / RX yellow / TX green
I²C Parameters	Frequency ≤ 20 kHz, signal voltage 3.3 V; VCC red / GND black / SDA yellow / SCL green
Communication Mode	Active-upload and question-answer modes; Q&A is the default on power-up
Built-in Temperature Sensor	-20 ℃ to +70 ℃, ± 0.2 ℃ (typical)
Built-in Humidity Sensor	0 – 100% RH, ± 2% (typical)
Working Temperature	-40 ℃ to +55 ℃
Working Humidity	15 – 95% RH (non-condensing)
Working Pressure	Atmospheric pressure ± 10%
Size (Including Sensor)	40 × 30 × 12 mm
Size (Without Sensor)	40 × 30 × 5.6 mm
Weight	< 15 g (including sensor)
Cable Length	100 mm, special length by request
Warranty	12 months from the date of shipment

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TB200B-ES1-CH4S-5000 — TB200B-ES1-CH4S-5000 Methyl Mercaptan Detection Module

The EC Sense TB200B-ES1-CH4S-5000 is an industrial-safety-grade smart digital gas sensor module for Methyl Mercaptan detection, with a 0 – 5000 ppm range and 0.1 ppm resolution. The module uses the compact ES1 electrochemical sensor (40 × 30 × 12 mm including …

Target Gas	Methyl Mercaptan
Detection Range	0 – 5000 ppm
Resolution	0.1 ppm
Sensor Packaging	ES1
Order No. (UART)	04-TB200B-ES1-CH4S-5000-01
Order No. (I²C)	04-TB200B-ES1-CH4S-5000-I2C-01
Operating Principle	Solid Polymer Electrochemical Sensing Technology
Accuracy	± 5% (measurement value)
Repeatability	1%
Linearity	Linear
Long-Term Drift	< 5% / year
Expected Lifetime	> 5 years
Output Signal	UART (TTL 3.3 V) or I²C digital signal
UART Parameters	Baud rate 9600, 8 data bits, 1 stop bit; VCC red / GND black / RX yellow / TX green
I²C Parameters	Frequency ≤ 20 kHz, signal voltage 3.3 V; VCC red / GND black / SDA yellow / SCL green
Communication Mode	Active-upload and question-answer modes; Q&A is the default on power-up
Built-in Temperature Sensor	-20 ℃ to +70 ℃, ± 0.2 ℃ (typical)
Built-in Humidity Sensor	0 – 100% RH, ± 2% (typical)
Working Temperature	-40 ℃ to +55 ℃
Working Humidity	15 – 95% RH (non-condensing)
Working Pressure	Atmospheric pressure ± 10%
Size (Including Sensor)	40 × 30 × 12 mm
Size (Without Sensor)	40 × 30 × 5.6 mm
Weight	< 15 g (including sensor)
Cable Length	100 mm, special length by request
Warranty	12 months from the date of shipment

Every module is professionally calibrated with standard gas before shipment, with the calibration data stored in its flash chip — plug-and-play, no secondary gas calibration required. Refer to the dat

TB200B-ES4-CH4S-10 — TB200B-ES4-CH4S-10 Methyl Mercaptan Detection Module

The EC Sense TB200B-ES4-CH4S-10 is an industrial-safety-grade smart digital gas sensor module for Methyl Mercaptan detection, with a 0 – 10 ppm range and 0.001 ppm resolution. The module uses the standard ES4 electrochemical sensor (40 × 30 × 22.45 mm includin…

Target Gas	Methyl Mercaptan
Detection Range	0 – 10 ppm
Resolution	0.001 ppm
Sensor Packaging	ES4
Order No. (UART)	04-TB200B-ES4-CH4S-10-01
Order No. (I²C)	04-TB200B-ES4-CH4S-10-I2C-01
Operating Principle	Solid Polymer Electrochemical Sensing Technology
Accuracy	± 5% (measurement value)
Repeatability	1%
Linearity	Linear
Long-Term Drift	< 5% / year
Expected Lifetime	> 5 years
Output Signal	UART (TTL 3.3 V) or I²C digital signal
UART Parameters	Baud rate 9600, 8 data bits, 1 stop bit; VCC red / GND black / RX yellow / TX green
I²C Parameters	Frequency ≤ 20 kHz, signal voltage 3.3 V; VCC red / GND black / SDA yellow / SCL green
Communication Mode	Active-upload and question-answer modes; Q&A is the default on power-up
Built-in Temperature Sensor	-20 ℃ to +70 ℃, ± 0.2 ℃ (typical)
Built-in Humidity Sensor	0 – 100% RH, ± 2% (typical)
Working Temperature	-40 ℃ to +55 ℃
Working Humidity	15 – 95% RH (non-condensing)
Working Pressure	Atmospheric pressure ± 10%
Size (Including Sensor)	40 × 30 × 22.45 mm
Size (Without Sensor)	40 × 30 × 5.6 mm
Weight	< 25 g (including sensor)
Cable Length	100 mm, special length by request
Warranty	12 months from the date of shipment

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Sensor Packaging	ES4
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Operating Principle	Solid Polymer Electrochemical Sensing Technology
Accuracy	± 5% (measurement value)
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