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The technology of ELT SENSOR

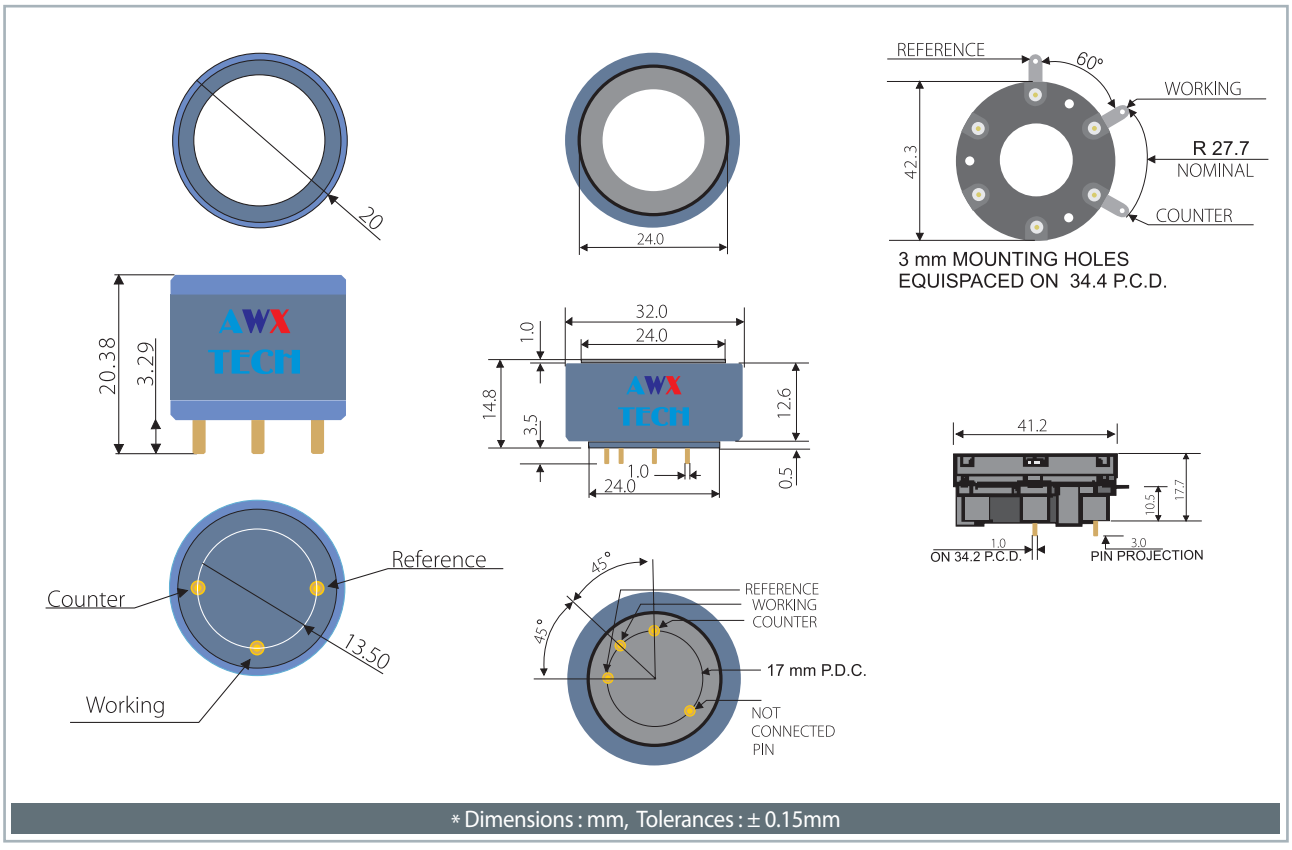
is the world's best technological power inspiring vitality into healthy future and happy life of mankind!

ELT SENSOR

Application

NH_3

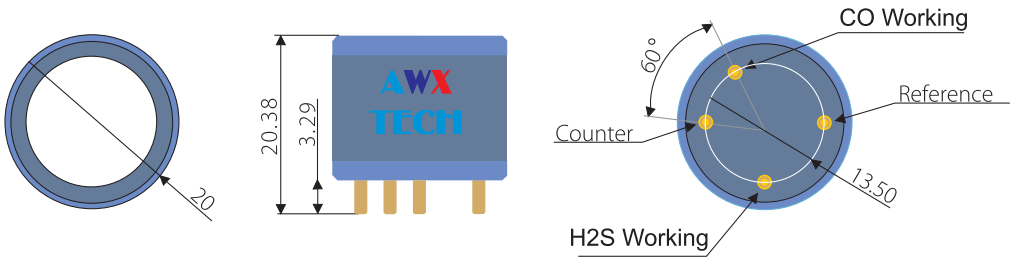
Specification	NH_3-4/100 Mini; NH_3-3/100 Compact, NH_3-3/100 Standard
Application	Safety and Environmental Control For Portable NH3 Gas Detectors
Nominal Range	0 to 100ppm
Maximum Overload	200ppm
Output Signal	100 ± 20 nA/ppm
Maximum Zero Shift (+20°C to +40 °C)	- 8 ppm; - 7 ppm
Resolution	1 ppm
Typical Baseline Range (pure air, 20°C)	0 ppm ~ ± 4 ppm; 0 ppm ~ ± 7 ppm
Resposne Time (T90)	< 30 sec; < 50 sec
Repeatability	< 3 %; < 2% of signal
Recommended Load Resistor	10 Ohm
Position Sensitivity	None
Output Linearity	Linear
Bias Voltage	Not required
Temperature Range	- 10 °C to ~ 50 °C; - 10 °C to ~ 40 °C
Relative Humidity Range	15 % to 90 % R.H. (Non-condensing)
Pressure Range Atmospheric	± 10 %
Weight	~ 5.4 g; ~ 28 g
Expected Long Term Output Drift	< 5 % signal loss / 6 months < 1 % signal loss / month
Expected Operation Life	2 years
Storage Life	Six months in container
Recommended Storage Temperature	5 °C – 20 °C
Warranty Period	12 months from date of dispatch
Interfering Gas Concentration Reading (20 °C, 50% RH and 1013 mbar)	CO 300ppm < 0ppm, H_2 300ppm < 0ppm, SO_2 20ppm -7ppm, H_2S 20ppm 7ppm, NO 20ppm -1ppm, NO_2 20ppm -20ppm, Cl_2 20ppm -55ppm, CO_2 2% 0ppm; CO 100ppm < 0ppm, SO_2 20ppm < -5ppm, NO 20ppm -20ppm



* Dimensions : mm, Tolerances : ± 0.15mm

COSH

Specification	Mini COSH-4/1000
Application	Safety and Environmental Control For Portable CO and H2S Multi-Gas Detectors
Nominal Range	CO : 0 ~ 1,000ppm, H2S : 0 ~ 200ppm
Maximum Overload	CO : 2,000ppm, H2S : 500ppm
Output Signal	CO : 85 ± 25 nA/ppm, H2S : 700 ± 250 nA/ppm
Inboard Filter	> 20000 ppm for one hour
Maximum Zero Shift	None
Resolution	CO : 1 ppm, H2S : 0.5 ppm
Typical Baseline Range (pure air, 20℃)	-5 ppm ~ +5 ppm
Resposne Time (T90)	< 25 sec
Recommended Load Resistor	10 Ohm
Position Sensitivity	None
Repeatability	< 2 % of signal
Output Linearity	Linear
Bias Voltage	Not required
Temperature Range	-20 ℃ to + 50 ℃
Relative Humidity Range	15 % to 90 % R.H. (Non-condensing)
Pressure Range Atmospheric	±10 %
Weight	~5.4 g
Expected Long Term Output Drift	< 2 % signal loss/month
Expected Operation Life	2 years in air
Storage Life	Six months in container
Recommended Storage Temperature	5 ℃ – 20 ℃
Warranty Period	12 months from date of dispatch
Interfering Gas Concentration Reading	H_2S 25ppm - CO < 5ppm / H_2S 25ppm, CO 300ppm - H_2S < 5ppm / CO 300ppm, SO_2 5ppm - CO 0ppm / H_2S < 1ppm, H_2 100ppm - CO < 30ppm / H_2S < 5ppm



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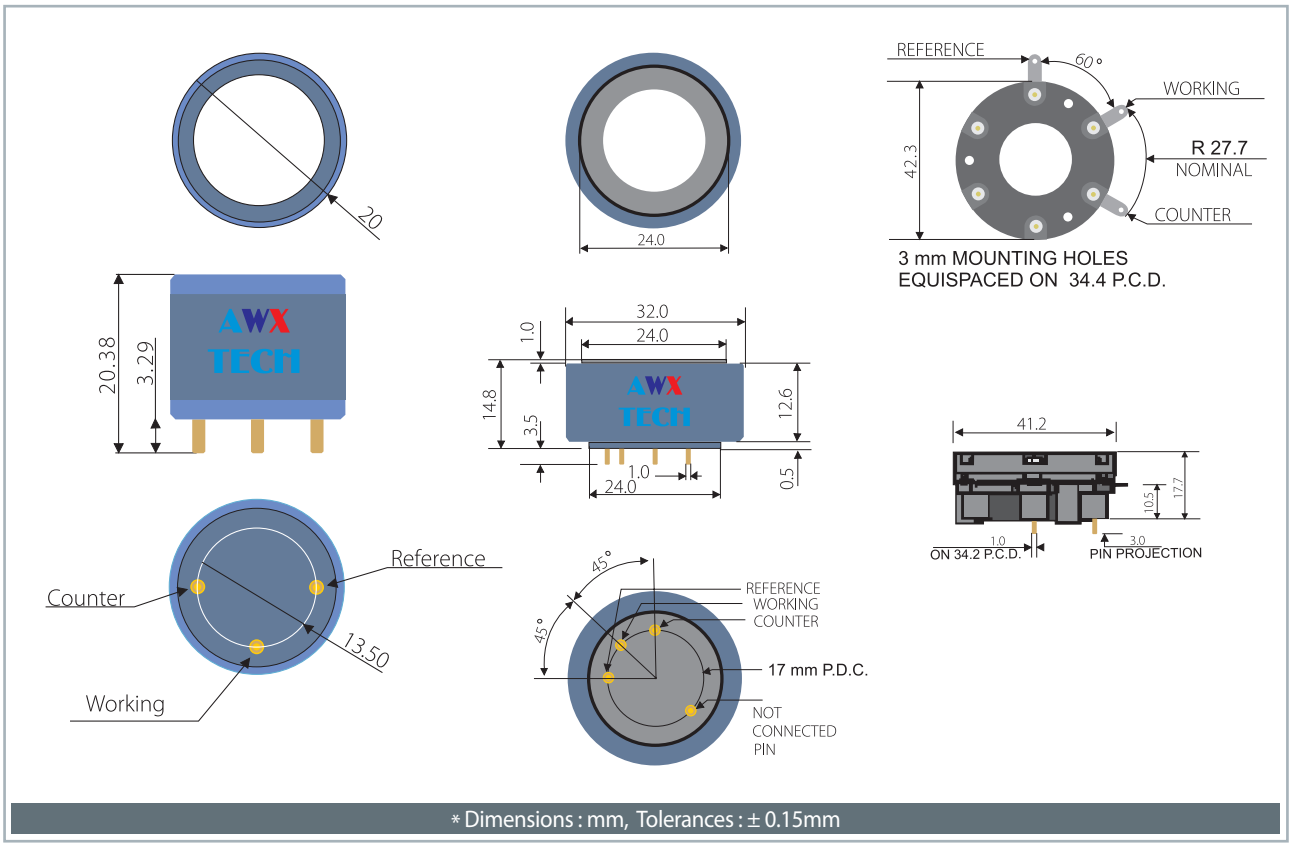
CO

Specification	CO-4/1000 Mini (M) ; CO-7/1000 Compact, CO-3/1000 Standard
Application	Safety and Environmental Control For Portable CO Gas Detectors
Nominal Range	0 ~ 1,000 ppm
Maximum Overload	2,800 ppm ; 2,000 ppm
Output Signal	50 ± 15 nA/ppm; 120 ± 20 nA/ppm
Maximum Zero Shift (+20°C to +40 °C)	2 ppm equivalent
Resolution	2 ppm ; 1 ppm
Typical Baseline Range (pure air, 20°C)	- 5 ppm ~ +5 ppm; - 7 ppm ~ +7 ppm
Resposne Time (T90)	< 25 sec; < 30 sec
Recommended Load Resistor	10 Ohm
Position Sensitivity	None
Repeatability	< 2 % of signal
Output Linearity	Linear
Bias Voltage	Not required
Temperature Range	-20°C ~ +50°C; -30°C ~ +30°C
Relative Humidity Range	15 % to 90 % R.H. (Non-condensing)
Pressure Range Atmospheric	±10 %
Weight	~5.4 g; ~28 g
Expected Long Term Output Drift	< 2 %; < 1 % signal loss/month
Expected Operation Life	2 years; 3 years in air
Storage Life	Six months in container
Recommended Storage Temperature	5 °C – 20 °C
Warranty Period	12 months from date of dispatch
Interfering Gas Concentration Reading (20 °C ,50% RH and 1013 mbar)	H_2 100 ppm < 40 ppm, H_2S 10 ppm ~ 0 ppm; H_2S 20 ppm < 50 ppm, SO_2 20 ppm < 10 ppm, NO_2 10ppm ~ 5.0 ppm

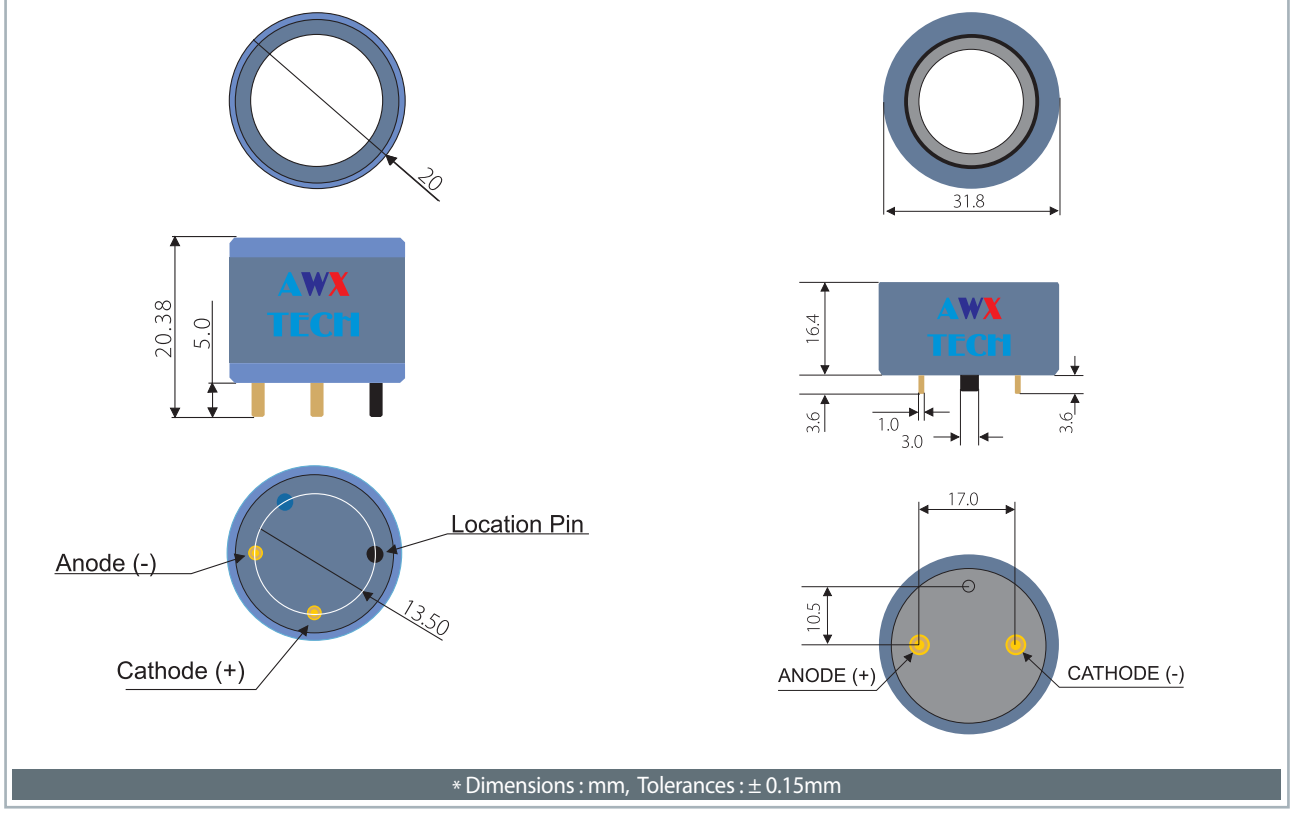


* Dimensions : mm, Tolerances : ± 0.15mm

Application

O_2

Specification	O_2-4/25 Mini ; O_2-7/25 Compact
Application	Safety and Environmental Control For Portable O_2 Gas Detectors
Nominal Range	0 ~ 25 %
Maximum Overload	30%
Output Signal	.10 ± 0.02 mA in Air
Maximum Zero Shift (+20°C to +40 °C)	None
Resolution	0.10%
Typical Baseline Range (pure air, 20°C)	None
Resposne Time (T90)	< 15 sec
Repeatability	< 2 % of signal
Recommended Load Resistor	100 Ohm
Position Sensitivity	None
Output Linearity	Linear
Bias Voltage	Not required
Temperature Range	- 20 °C ~ + 50 °C
Relative Humidity Range	5 % ~ 95 % R.H. (Non-condensing)
Pressure Range Atmospheric	± 20 %
Weight	~14 g; ~35 g
Expected Long Term Output Drift	< 2 % signal loss/month
Expected Operation Life	2 years
Storage Life	Six months in container
Recommended Storage Temperature	5 °C – 20 °C
Warranty Period	12 months from date of dispatch
Interfering Gas Concentration Reading (Performance data conditions : None)	No Effect



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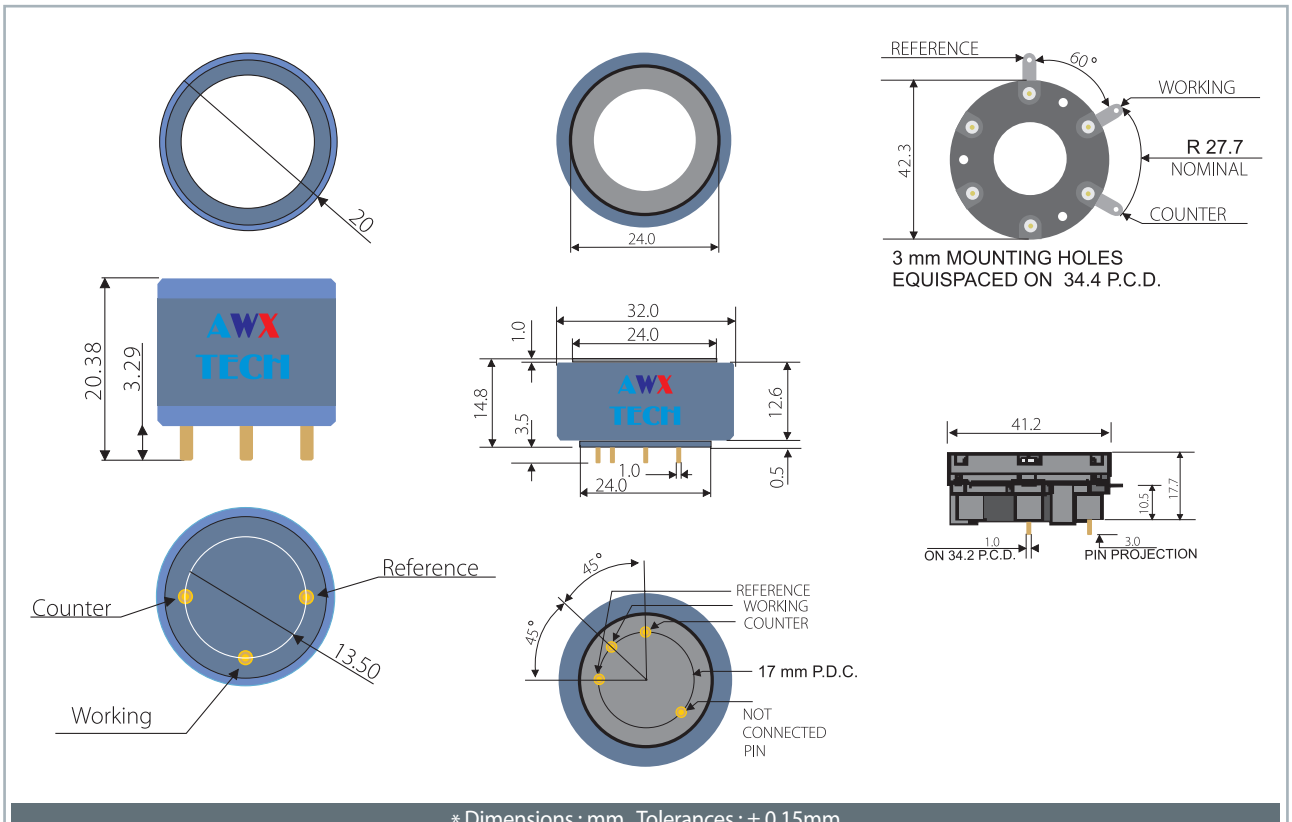
H_2S

Specification	H_2S-4/100 Mini; H_2S-7/200 Compact, H_2S-3/200 Standard
Application	Safety and Environmental Control For Portable H_2S Gas Detectors
Nominal Range	0 ~ 100ppm; 0 ~ 200ppm
Maximum Overload	300ppm; 500ppm
Output Signal	700 ± 140 nA/ppm; 350 ± 70 nA/ppm
Maximum Zero Shift (+20°C to +40 °C)	0.1 ppm equivalent; 2 ppm equivalent;
Resolution	0.1 %
Typical Baseline Range (pure air, 20°C)	-0.1 ppm ~ +0.1 ppm
Resposne Time (T90)	< 25 sec; < 50 sec
Repeatability	< 2 % of signal
Recommended Load Resistor	10 Ohm
Position Sensitivity	None
Output Linearity	Linear
Bias Voltage	Not required
Temperature Range	- 40 °C ~ + 50 °C
Relative Humidity Range	15 % ~ 90 % R.H. (Non-condensing)
Pressure Range Atmospheric	± 10 %
Weight	~ 5.4 g; ~ 28 g
Expected Long Term Output Drift	< 2 % signal loss/month
Expected Operation Life	2 years in air
Storage Life	Six months in container
Recommended Storage Temperature	5 °C ~ 20 °C
Warranty Period	12 months from date of dispatch
Interfering Gas Concentration Reading (20 °C ,50% RH and 1013 mbar)	CO 300ppm : < 3ppm, H_2 300 ppm : < 3 ppm; CO 100 ppm : < 3 ppm, SO_2 100ppm : < 20 ppm, NO_2 5 ppm - 0.1 ppm



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