

ASTRA control units have been developed to be used for gas detection in industry, tertiary areas and boiler rooms where a continuous monitoring for combustible gases (methane or L.P.G.) is needed.

AS1A and AS2A models can operate respectively 1 or 2 FLY gas detectors. Those models can be mounted on DIN rail (3 modules).

AS1B and AS2B models are identical to the previous ones, but are inserted in a low profile housing for rear panel (48x96) mounting.

Finally, AS2C, AS4C and AS6C models are inserted in a low profile housing for rear panel (144x144) mounting, and can operate respectively 2, 4 or 6 FLY gas detectors.

Features

- Entry-level solution for gas detection in industry and tertiary areas
- Models available for 1, 2, 4 or 6 FLY gas detectors
- Field selectable AC 230 Vac or DC 10÷30 Vdc power supply
- Fault and alarm LED indicators
- Alarm relay
- Built-in audible alarm (85 dbA)
- Indication of remote detectors fault and life expiry

Ordering Information

Models

DIN rail mounted

- | | |
|----------|----------------------------------|
| B20-AS1A | Control unit for 1 gas detector |
| B20-AS2A | Control unit for 2 gas detectors |

Rear panel mounted (48 x 96 mm)

- | | |
|----------|----------------------------------|
| B20-AS1B | Control unit for 1 gas detector |
| B20-AS2B | Control unit for 2 gas detectors |

Rear panel mounted (144 x 144 mm)

- | | |
|----------|----------------------------------|
| B20-AS2C | Control unit for 2 gas detectors |
| B20-AS4C | Control unit for 4 gas detectors |
| B20-AS6C | Control unit for 6 gas detectors |

Accessories and spares

- | | |
|------------------|-----------------------------------|
| B98-BCT8 | DIN box 8 modules IP40 |
| B98-BCT12 | DIN box 12 modules IP40 |
| B98-BCT12NS | DIN box 12 modules IP55 |
| B98-BPB8 | Door for B98-BCT8 |
| B98-BPB12 | Door for B98-BCT12 |
| B98-LS | Key padlock for B98-BCT12NS |
| B90-SIRELAMP/12 | Audible/visual alarm unit 12 Vdc |
| B90-SIRELAMP/24 | Audible/visual alarm unit 24 Vdc |
| B90-SIRELAMP/220 | Audible/visual alarm unit 230 Vac |

A wide range of manual reloading gas valves are also available:

- | | |
|--------------|--------------------------------------|
| 10ORM series | NO, aluminium body, button reloading |
| 30ORM series | NO, aluminium body, button reloading |
| 40ORM series | NO, brass body, lever reloading |
| 50ORM series | NO, brass body, lever reloading |
| 60ORM series | NO, aluminium body, lever reloading |
| 90ORM series | NO, aluminium body, lever reloading |

Compatible detectors

Gas detectors with replaceable sensor module:

- | | |
|----------|---|
| B20-FLC1 | FLY - with CK1 - Methane (CH ₄) |
| B20-FLC2 | FLY - with CK2 - L.P.G. |

Specifications

Power

Power: Field selectable for AC or DC
AC power input: 230 Vac 50/60 Hz [-15% / +10%]
DC power input: 10÷30 Vdc
Power consumption (stand-by): see panel *

Environmental

Operating temperature: -5 / +50°C
Relative humidity: 5÷99% RH non-condensing
Enclosure rating: IP20

Mechanical

AS1A / AS2A

Dimensions: 53 x 90 x 58 mm
Weight: 260 gr
Color: Light grey (RAL 7035)
Housing: PC/ABS UL94-V0
Mounting: DIN rail mounted - EN 50022 [3 modules]

AS1B / AS2B

Dimensions: 48 x 96 x 72 mm
Weight: 283 gr
Color: Light grey / black
Housing: PC/ABS UL94-V0
Mounting: Rear panel mounted

AS2C / AS4C/ AS6C

Dimensions: 144 x 144 x 70 mm
Weight: 886 gr
Color: Light grey / black
Housing: PC/ABS UL94-V0
Mounting: Rear panel mounted

Alarm

Audible: Buzzer > 85 dbA

Inputs

Number of FLY detectors: AS1A / AS1B: 1
AS2A / AS2B / AS2C: 2
AS4C: 4
AS6C: 6
Loop resistance: 3300 Ω

Outputs

Alarm relay: 1,5 A @ 250 Vac (NO-C-NC)

Led indicators

Green: power ON
Yellow: fault
Red: alarm

Operational

1 push button (Test/Reset)

Approvals

EN 61779 (replaces EN 50054)
CEI 216-5/1
EMC [EN 50270]

Warranty

Two years

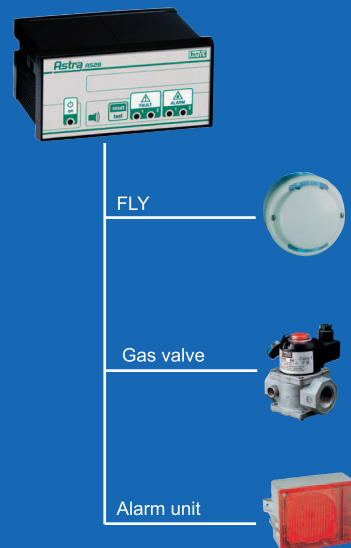
Gas detection control units

ASTRA

* Power consumption (stand-by)

MODEL	10 Vdc	30 Vdc	230 Vac
AS1A	20 mA	27 mA	29 mA~
AS2A	23 mA	36 mA	31 mA~
AS1B	18 mA	26 mA	30 mA~
AS2B	21 mA	34 mA	30 mA~
AS2C	20 mA	33 mA	24 mA~
AS4C	42 mA	70 mA	48 mA~
AS6C	62 mA	103 mA	74 mA~

Wiring example



This data sheet replaces previous ones.
The manufacturer can change without prior notice product specifications and details. Descriptions and illustrations are shown only in order to aid the customer. All data herewith enclosed is the copyright protected.



BELT DETECTION S.r.l.
Strada del Fornacino, 108/b
10040 Leini (TO) - Italy
Tel. [+39] 011.9966033
e-mail: info@beltdetection.com
www.beltdetection.com