Call **800.959.0299** to speak with a sales representative
or visit us on the web at **www.analyticaltechnology.com**

GasAlarm**Monitor**

Model B14 Series

ATI's Model B14 Series receivers are compact electronic modules that provide local alarm, display, and signal retransmission functions for gas detection systems. The modules are designed to accept input from either two, three, or four wire 4-20 mA transmitters located up to 10,000 feet from the receiver. They're ideally suited for use with any of ATI's toxic or combustible gas transmitters.

Accurate, Reliable Alarm,
Display, & Signal Retransmission...
...for Gas Detection Systems

ATi
ANALYTICAL TECHNOLOGY, INC.

FUNCTIONS.

ATI's Model B14 Alarm Receivers are DIN rail mounted modules that can be supplied in single or multiple unit enclosures. Each alarm module offers a variety of functions:

LED Display: Gas concentrations are indicated directly in PPM, PPB, percent, or percent LEL with the display range selectable by the user.

Three Alarm Setpoints: Each module provides separate caution, warning, and alarm setpoints with LED bar indicators of each alarm point. LED indicators flash on initial alarm condition and change to steady on when the alarm is indicated.

Three Relay Outputs: Modules contain individual alarm relays for each alarm setpoint. However, each relay can be assigned to any setpoint to allow multiple alarm functions at a single alarm point. Relays are configurable for either standard or fail-safe operation and for either latching or non-latching operation.

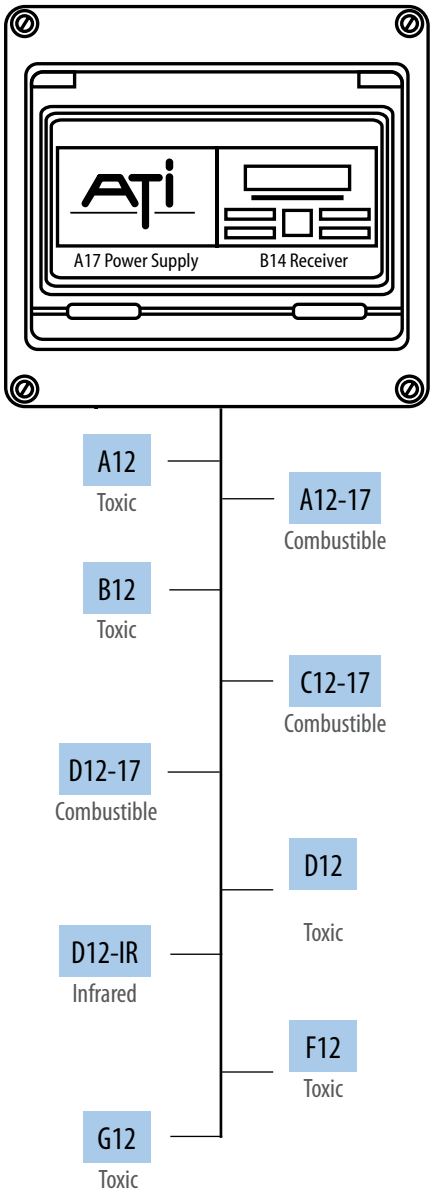
Separate Trouble Alarm: A fourth LED alarm bar and relay are provided to indicate trouble conditions. The trouble alarm and relay will activate on loss of input signal or if the 4-20 mA input drops below a specific value.

Remote reset Input: Isolated input contacts are provided to allow an unpowered switch input for acknowledgment of alarm conditions from a remote location or via telemetry equipment.

Internal Transmitter Power: Modules provide a 24 VDC power supply to operate either 2 or 3 wire transmitters.

Signal Retransmission: A 4-20 mA output is provided from each module, optically isolated from the input signal to avoid ground fault problems.

DC Powered: B14 modules are powered from a 12 VDC power supply available as an option. Up to 3 modules can be powered from one power supply (or 2 if battery backup is used). Customers provided 12-28 VDC supplies may also be used.



ATI Transmitter Input Options

The *Alarm Module* with the *Flexibility* You Need!

SYSTEM ENCLOSURES.

A variety of NEMA 4X enclosures are available to assemble detection systems from receivers and power supplies. ATI offers standard enclosures to house up to 12 modules, and can supply larger enclosures for systems requiring more points of detection. System integrators can use standard 35 mm DIN rail for mounting modules in their own enclosures.

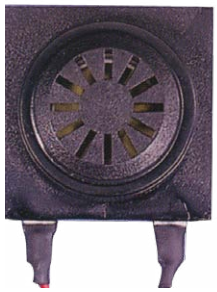
Single Module Enclosure
Houses a single receiver module for use in DC powered applications where the user supplies the DC power to the system.

Two Module Enclosure
Houses two receivers or one receiver and one power supply. Normally used for single point AC powered detectors.

Battery Back-Up

Three Module Enclosure
Accommodates two receivers and power supply or three receivers. Used mainly for two point detection systems.

Six Module Enclosure
Suitable for two power supplies and four receivers or six receivers. This enclosure is used primarily for four point gas detection systems.



Audible Horn

Nine Module Enclosure
Shown on Cover.

Twelve Module Enclosure
Not Shown.

Red Strobe

B14 Series **SPECIFICATIONS**

Concentration Display	4 Digit LED, Programmable Range
Input	2, 3 or 4-wire 4-20 mA Transmitter
Output	Isolated 4-20mA, 1000 ohms max load
Power	12-28 VDC, 400 mA max
Concentration Alarms	Three adjustable concentration alarms. Setpoints adjustable from 5-100% of span.
Alarm Indicators	LED bars for Caution, Warning, & Alarm
Indicator Function	Caution and Warning indicator non-latching. Alarm indicator latching.
Alarm Relays	3 assignable relays, 7 A, 120 VAC (4 A, 220 VAC) resistive. Alarms assignable to any one of 3 programmable setpoints.
Relay Function	Configurable for Normal/Fail-safe, Latching/Non-latching, 2/second/10 second delay, or external horn function.
Trouble Function	Front panel LED bar indicator and SPDT, 7 A relay. Factory set for fail-safe operation.
Alarm & Relay Reset	Activated from front panel switch or through remote reset switch.
External Reset	Input terminals provided for unpowered contact input.
Gas Indicator	LED bar on front panel with gas symbol overlay.
Electrical Connections	Quick disconnect pluggable terminal blocks.
Module Enclosure	Noryl
Module Mounting	Mounts to 35 x 7.5 mm DIN rail.
Size	2.8″W x 3.6″L 2.3″D (70 mm x 90 mm x 58 mm)
Operating Temp.	-40˚C to + 55˚C
Humidity	0-99% RH, non-condensing.

OPTIONS & SYSTEM ENCLOSURES

80-0005 Single Module Enclosure
80-0006 Two Module Enclosure
80-0007 Three Module Enclosure
80-0033 Large Three Module Enclosure
80-0008 Six Module Enclosure
80-0027 Large Six Module Enclosure
80-0024 Nine Module Enclosure
80-0026 Twelve Module Enclosure
00-0055 Power Supply (For 2 Alarm Modules and Batter Backup or 3 Alarm Modules)
28-0004 65 Watt Power Supply (For up to 12 Alarm Modules)
00-0057 Battery Backup Unit
00-0058 Audible Horn, Internal, 12 VDC
35-0008 Horn, Industrial External 120 VAC
35-0010 Horn, Industrial External 220 VAC
35-0002 Strobe with red lens, 12 VDC
35-0005 Strobe with red lens, 120 VAC
35-0018 Strobe with red lens, 230 VAC

ORDERING INFORMATION

Model B14-CC-DDDD-E Alarm Module

Specify each alarm module separately using the code number below. Then add the enclosure, power supply, and other options as needed for a complete system. Specify A12 or B12 transmitters separately.

Suffix DDDD - Measurement Range	
10 - Bromine Br_2	29 - Diborane B_2H_6
11 - Chlorine Cl_2	30 - Germane GeH_4
12 - Chlorine Dioxide ClO_2	31 - Hydrogen Selenide H_2Se
13 - Fluorine F_2	32 - Phosphine PH_3
14 - Ozone O_3	33 - Silane SiH_4
15 - Ammonia NH_3	34 - Hydrogen Peroxide H_2O_2
16 - Carbon Monoxide CO	35 - Iodine I_2
17 - Combustible Gas CH_4	36 - Acid Gases HX
18 - Hydrogen H_2	37 - Ethylene Oxide (ETO) C_2H_4O
19 - Oxygen O_2	38 - Formaldehyde HCOH
20 - Phosgene $COCl_2$	39 - Alcohol CXOH
21 - Hydrogen Chloride HCl	40 - Acetylene C_2H_2
22 - Hydrogen Cyanide HCN	41 - Carbon Dioxide CO_2
23 - Hydrogen Fluoride HF	42 - Oxides of Nitrogen NOx
24 - Hydrogen Sulfide H_2S	43 - Chlorine (Low I2) Cl_2
25 - Nitric Oxide NO	44 - Chlorine Dioxide (Low C12) ClO_2
26 - Nitrogen Dioxide NO_2	45 - Hydrocarbon (Specials) HC
27 - Sulfur Dioxide SO_2	46 - Nitrous Oxide N_2O
28 - Arsine AsH_3	47 - Dimethylamine $(CH_3)_2NH$

Suffix DDDD - Measurement Range

Code the measurement range using a four digit number. The alarm module range is determined by the range of the transmitter connected to the module. For a 0-10 PPM chlorine transmitter input, the code would be 0010.

Suffix E - Units of Measurement

1 - PPM
2 - PPB
3 - %
4 - %LEL

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