



ISO 9001: 2000
Certified

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Detcon MODEL 10C CONTROLS

SINGLE SENSOR GAS DETECTION CONTROL MODULES



Four Character Scrolling Display

serves as both a power on indicator and a direct reading display of the gas concentration. The display will also flash on and off during any over-range condition.

User Programmable Alarm Parameters

Alarm Level
Ascending/Descending
Energized/non-Energized
Silenceable/non-Silenceable
Latching/non-Latching
Cal Mode (inhibits alarm relays)

User Programmable Features

Gas Type
Range
Unit (ppm, %, ppb, mA)
Modbus Address

DESCRIPTION

Detcon Model 10C single channel digital control modules are designed to supervise and display the status of a single remote sensor assembly. Modules are available for a variety of toxic and combustible gas sensors and are compatible with the complete line of Detcon Model 10 Series enclosures and mainframe hardware assemblies.

SPECIFICATIONS

Range

Programmable by sensor type and range
1.00 to 9999 (ppm, %, ppb)

Accuracy/Repeatability

± 2% F.S.

Operating Temperature Range

-40°C to +80°C; -40°F to +175°F

Input Voltage

11.5 to 28 VDC

Power Consumption

<1 watt; <2.5 watts (full alarm)

Outputs

Analog 4-20 mA DC
Serial RS-485 Modbus™

Relays

Alarm 1, Alarm 2, Fault
Form "C" (C, NO, NC)
Contacts 5 amps @ 30 VDC or 120 VAC

FEATURES

- ▷ Modular plug-in design
- ▷ 2 to 16 channel packaging:
 - NEMA 1 panel/rack mount
 - NEMA 4X weather proof
 - NEMA 7 explosion proof
- ▷ Outputs: 4-20, RS-485 (Modbus™), 2 alarm relays
- ▷ Control module status and parameters accessible via RS-485
- ▷ Programmable relays standard (2 alarms + 1 fault)
- ▷ Five year fixed-fee service policy
- ▷ Alarm reset, silence, and calibration inhibit
- ▷ 4 character, alpha-numeric display w/scrolling operator interface

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ORDER GUIDE

Gas Type	Standard Range*	Model Number	Part Number
Acetaldehyde (C2H3O)	0-100 ppm	C2H3O-10C	915-EA0050-100
Acetylene (C2H2)	0-100 ppm	C2H2-10C	915-EG0050-100
Acrylonitrile (C3H3N)	0-100 ppm	C3H3N-10C	915-EM0050-100
Ammonia (NH3)	0-100 ppm	NH3-10C	915-000050-100
Arsine (AsH3)	0-1 ppm	AsH3-10C	915-190050-1X0
Bromine (Br2)	0-5 ppm	Br2-10C	915-750050-5X0
Butadiene (C4H6)	0-100 ppm	C4H6-10C	915-EB0050-100
Carbon Dioxide (CO2)	0-1%	CO2-10C	915-400051-X00
Carbon Disulfide (CS2)	0-100 ppm	CS2-10C	915-EH0050-100
Carbon Monoxide (CO)	0-100 ppm	CO-10C	915-440050-100
Carbonyl Sulfide (COS)	0-100 ppm	COS-10C	915-EN0050-100
Chlorine (Cl2)	0-10 ppm	Cl2-10C	915-740051-0X0
Chlorine Dioxide (ClO2)	0-1 ppm	ClO2-10C	915-760050-1X0
Combustible Gas	0-100% LEL	CG-10C	915-520050-100
Diborane (B2H6)	0-5 ppm	B2H6-10C	915-210050-5X0
Dimethyl Sulfide (C2H6S)	0-100 ppm	C2H6S-10C	915-EC0050-100
Epichlorohydrin (C3H5OCl)	0-100 ppm	C3H5OCl-10C	915-EI0050-100
Ethanol (C2H5OH)	0-100 ppm	C2H5OH-10C	915-EO0050-100
Ethyl Mercaptan (C2H5SH)	0-100 ppm	C2H5SH-10C	915-EZ0050-100
Ethylene (C2H4)	0-100 ppm	C2H4-10C	915-ED0050-100
Ethylene Oxide (C2H4O)	0-100 ppm	C2H4O-10C	915-EJ0050-100
Fluorine (F2)	0-1 ppm	F2-10C	915-270050-1X0
Formaldehyde (CH2O)	0-100 ppm	CH2O-10C	915-EP0050-100
Germane (GeH4)	0-2 ppm	GeH4-10C	915-250050-2X0
Hydrazine (N2H4)	0-1 ppm	N2H4-10C	915-260050-1X0
Hydrogen (H2)	0-100 ppm	H2-10C	915-840050-100
Hydrogen (H2)	0-100% LEL	H2-10C	915-050050-100
Hydrogen Bromide (HBr)	0-30 ppm	HBr-10C	915-080050-030
Hydrogen Chloride (HCl)	0-30 ppm	HCl-10C	915-140050-030
Hydrogen Cyanide (HCN)	0-30 ppm	HCN-10C	915-040050-030
Hydrogen Fluoride (HF)	0-10 ppm	HF-10C	915-330051-0X0
Hydrogen Sulfide (H2S)	0-100 ppm	H2S-10C	915-010050-100
Methanol (CH3OH)	0-100 ppm	CH3OH-10C	915-EE0050-100
Methyl Mercaptan (CH3SH)	0-100 ppm	CH3SH-10C	915-EK0050-100
Nitric Oxide (NO)	0-100 ppm	NO-10C	915-940050-100
Nitrogen Dioxide (NO2)	0-10 ppm	NO2-10C	915-640051-0X0
Oxygen Deficiency (O2)	0-25%	O2-10C	915-340052-5X0
Ozone (O3)	0-1 ppm	O3-10C	915-390050-1X0
Phosgene (COCl2)	0-1 ppm	COCl2-10C	915-410050-1X0
Phosphine (PH3)	0-5 ppm	PH3-10C	915-200050-5X0
Silane (SiH4)	0-50 ppm	SiH4-10C	915-230050-050
Sulfur Dioxide (SO2)	0-20 ppm	SO2-10C	915-540050-020
Tetrahydrothiophene (C4H8S)	0-100 ppm	C4H8S-10C	915-430050-100
Thiophane (C4H4S)	0-100 ppm	C4H4S-10C	915-EQ0050-100
Toluene (C6H5CH3)	0-100 ppm	C6H5CH3-10C	915-ER0050-100
Vinyl Acetate (C4H6O2)	0-100 ppm	C4H6O2-10C	915-EF0050-100
Vinyl Chloride (C2H3Cl)	0-100 ppm	C2H3Cl-10C	915-EL0050-100

Model 10 Series Blank Plate 910-000008-003

*Consult the factory for other ranges.