IGD

International Gas Detectors

HMI MODULES
Advanced Addressable 2-Wire Gas Detection System

Addressable gas detectors from IGD allow efficient connection of digitally communicating networked sensors back to a central control panel for alarm monitoring. Controllers are available to network to up to 128 detector nodes. Each detector node in turn has additional I/O as well as being a gas detector. This makes local connection of third party devices such as break glass units, temperature probes, airflow, pressure etc very simple with minimal extra cabling.

In this manner a controller could have up to 350 channels. Whilst this minimises costs it may not be the most ergonomic solution for a site. Detection may be spread over a number of buildings or floors. In this case you may still want a central focal point but have individual controllers local to specific areas.

A further consideration is data capture. Controllers from IGD can have Modbus interfaces allowing access to channel information and alarms to third party systems. In many cases BMS systems may only want alarm information and are not interested in day to day trending. Control panels do not directly data log channel information. Controllers are designed for their primary function to meet the requirements of IEC 60079-29-1 as a gas alarm system.

HMI modules from IGD are designed to meet these requirements. Equipped with 15" colour touch screens they can connect to up to 32 IGD gas detection controllers. A dashboard provides an overview of all connected systems grouping detector channels logically to suit the site either by connected controller or area.

* Terms and Conditions Apply
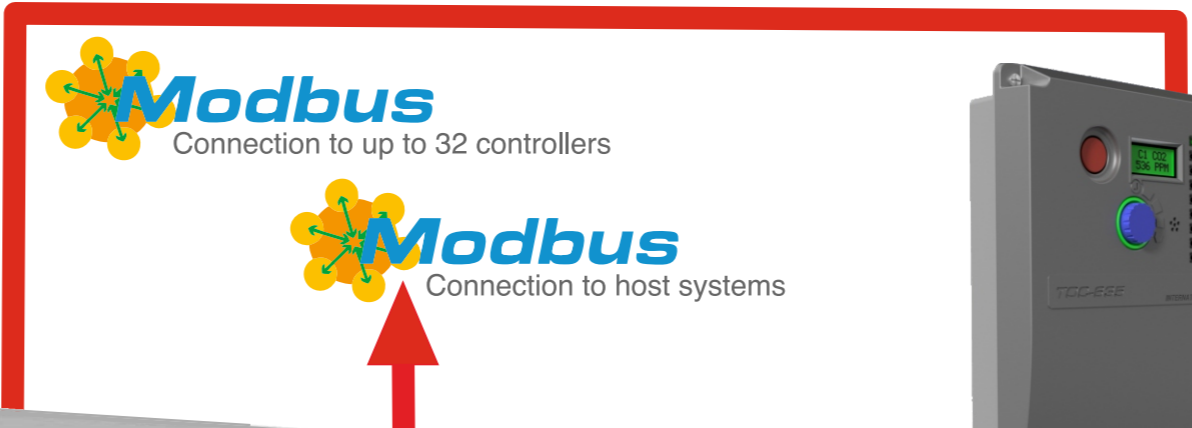
Always use latest version data sheets from IGD website

INVESTORS IN PEOPLE

bsi.
ISO 9001 Quality Management
ISO 14001 Environmental Management
FS646773   EMS696504

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Modbus
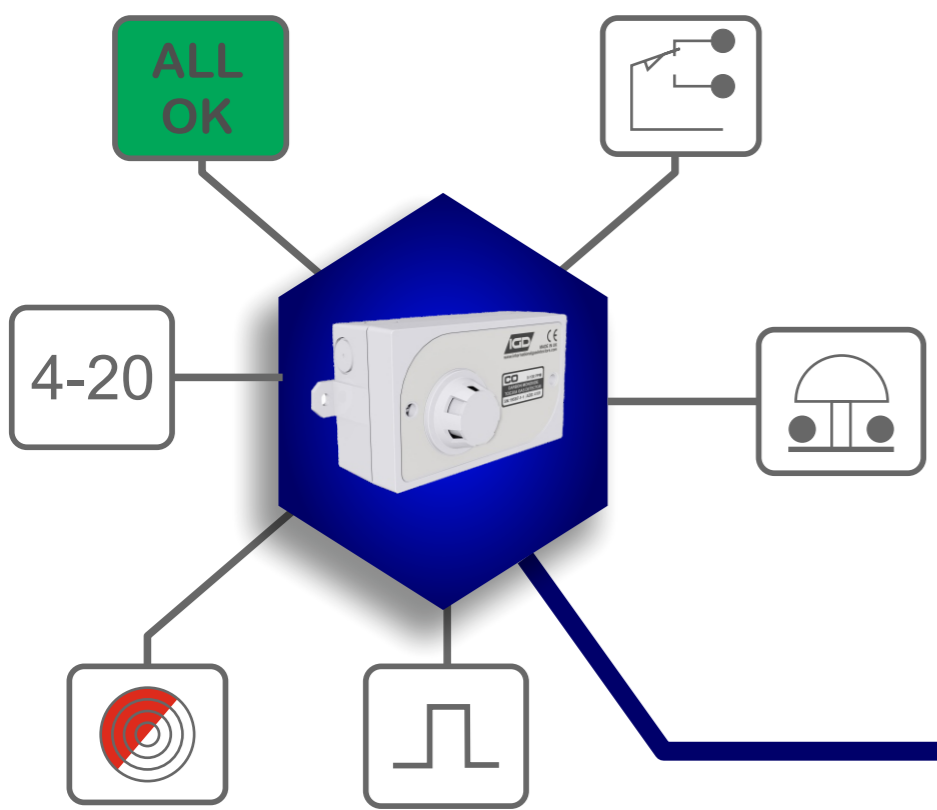Connection to up to 32 controllers

Modbus
Connection to host systems

Cloud Data Options

See your detection system from anywhere using IGD's cloud options. View live sensor data and respond remotely to alarms.

GAS DETECTORS LEVEL 03 — RESET

C01	GAS ALARM	AL1	AL2	AL3	SATELLITE LAB 03.02.24 CO2	3990	PPM
C02	ALL OK	AL1	AL2	AL3	SATELLITE LAB 03.02.32 CO2	490	PPM
C03	ALL OK	AL1	AL2	AL3	COMMON SUPPORT 03.01.30 CO2	590	PPM
C04	FAULT	AL1	AL2	AL3	SATELLITE LAB 03.04.32 CO2	-10	PPM
C05	DISABLED	AL1	AL2	AL3	SATELLITE LAB 03.04.24 CO2		PPM

HOME

I/O Point Options on all Detectors

Control exactly where it is needed minimising expensive site cabling and containment requirements. Each detector node has configurable I/O options to allow input from third party 4-20mA sensors or output control of devices using the on-board relay or SSR ports. Minimal cabling and install with maximum flexibility.

ALL OK

4-20

- ▶ Connect up to 32 Controllers
- ▶ Dashboard Overview of the Systems Connected
- ▶ Drill Down to the System in Alarm
- ▶ Drill Down to the Sensor in alarm
- ▶ View Trend Display For Individual Sensors
- ▶ Logged Data Stored Every 24 Hours
- ▶ Retrieve and Trend View Historic Logged Data
- ▶ Mute and Reset Facility
- ▶ Cloud Options to See, Mute or Reset From Anywhere
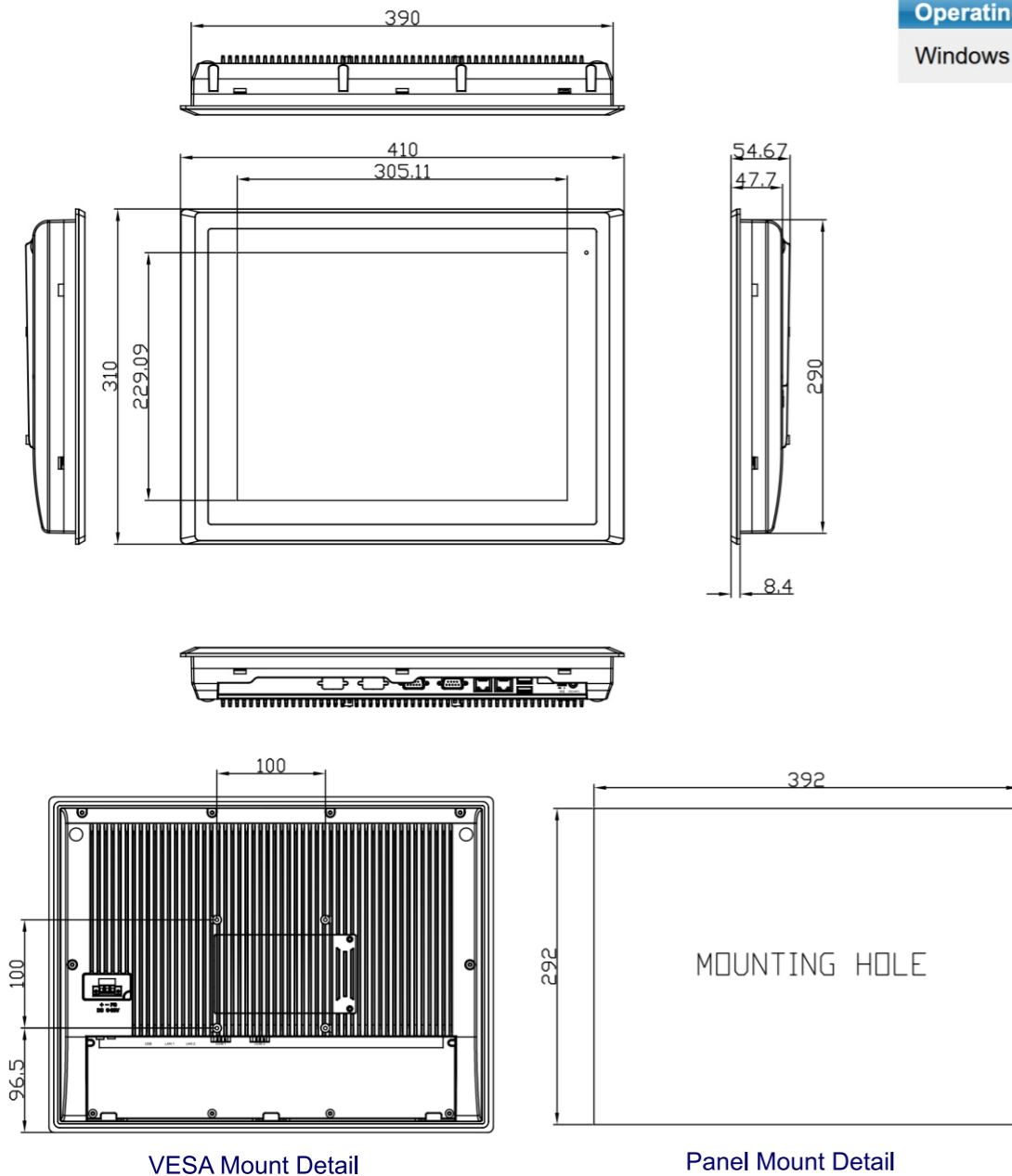
Advanced Addressable 2-Wire Gas Detection System

One single 2-core cable with no required connection polarity connects all system devices. Auto find, Auto configure and Auto update, combined with our downloadable status reports are just some of the key features of the system. This gives you the peace of mind that you have the right gas detection system doing the right job. Protecting both your plant and personnel.

DIMENSIONS

Superior Scratch Resistance

SPECIFICATIONS

Power	
Power Input	DC 9~36V
Power Consumption	ARCHMI-815AP: TBD

Mechanical	
Color	RAL 9007
Construction	Aluminum die-casting chassis
Mounting	Panel Mount, VESA 100 x 100
Dimensions (WxHxD)	410mm x 310mm x 54.67mm
IP Rating	IP66 Compliant Front Bezel
Net Weight	4.4 kg

Environmental	
Operating Temperature	0~50˚C
Storage Temperature	-30~70˚C
Storage Humidity	10 to 90%@ 40˚C, non-condensing
Certificate	CE/FCC Class A/CB/UL

Operating System Support	
Windows 10	

ORDER CODES

Part Number	Description
5997750	15" HMI Supplied With VESA Mount, PSU and Terminal Enclosure.
5262501	15" HMI Spare Module
5468801	15" HMI Supplied Fitted to 9U High Rack Panel
5997701	15" HMI Supplied Fitted into Stainless Steel Wall Mount Enclosure.

System	
CPU	Onboard Intel Apollo Lake N4200 (4 Core, 1.1GHz) / N3350 (2 Core, 1.1GHz)
System Chipset	SoC
Memory	On Board 4G/8G DDR3L 1866MHz

I/O Port	
USB	2 x USB 3.0 type A
Serial / Parallel	1 x DB-9 RS-232/422/485, COM1 (Default RS-232) 1 x RS-232 DB-9, COM2
Audio	1 x Audio Line Out
LAN	2 x GbE LAN RJ-45
Power	1 x 3-pin DC power input terminal 1 x 2-pin connector for power on/off button
Option	2 x RS-232 DB-9 + 1 x Mini-PCIe slot via TB-528C2ME1 2 x CAN bus via TB-528CAN2 2 x USB 2.0 type A + 1 x Mini-PCIe slot + 1xRS-232 DB-9 via TB-528C1U2P1 4 x USB 2.0 type A via TB-528U4 UPS Battery 21W/10.8W/1.95Ah(3S1P) ***UPS Battery and TB-528 expansion board can't be used in the same time***

Storage Space	
HDD	1 x 2.5" SATA HDD bay for SATA3 HDD (Easy Accessible)

Expansion	
Expansion Slot	1 x Internal Mini-PCIe slot full size 1 x SIM card holder / Micro SD card reader

Dispalay	Standard	High Brightness Optional
Display Type	15" TFT-LCD	15" TFT-LCD
Max. Resolution	1024 x 768	1024 x 768
Max. Color	16.2M	16.2M
Luminance (cd/m^2)	300	1000
View Angle	168(H) / 168(V)	145(H) / 160(V)
Contrast	2000:1	800:1
Backlight Lifetime	50,000 hrs	30,000 hrs

Touch Screen	
Type	Resistive Touch Window Projected Capacitive Touch (For P Model)
Interface	USB
Light Transmission(%)	Resistive Touch Window: over 80% Projected Capacitive Touch: over 90%

390

410
305.11

54.67
47.7

310
229.09

290

8.4

100

392

310

96.5

100

292

MOUNTING HOLE

VESA Mount Detail

Panel Mount Detail

Superior Abrasion Resistance

Modbus