CAB100 CMS Industrial Cabinet

For data collection in cleanrooms and industrial settings

Features

- Measurement options include differential pressure and analog inputs for a variety of parameters
- Analog inputs can be made intrinsically safe with a safety barrier or galvanic isolator
- Reporting via viewLinc is compliant with FDA, Annex 11, GxP, and GAMP
- Networking options include PoE and/or a multiport Ethernet adapter
- Large cabinets feature an integrated 24 VDC / 2.5 A power supply
- Small cabinets have the option of integrated power supply, or Power over Ethernet

Vaisala CMS Industrial Cabinet CAB100 integrates Vaisala's world-class instruments for monitoring differential pressure and other parameters into a simple, pre-configured instrument panel. In combination with the Vaisala viewLinc Enterprise Server Software, the cabinet provides pre-installed real-time monitoring of your critical environments.

Easy Data Collection with Quality & Compliance

Cabinets are configurable to your application requirements, with options for differential pressure transmitters, analog inputs for the connection of remote transmitters, and safety barriers or galvanic isolators for hazardous areas that require intrinsically safe devices. CAB100 enables you to combine differential pressure and other transmitters with data loggers in a single enclosure for centralized monitoring and reliable alarming.

Configured for Your Cleanroom

CAB100 is designed to ensure regulatory compliance in multiple cleanroom applications, including: pharmaceutical, healthcare, biotechnology, medical device, aerospace, automotive, and semiconductor manufacturing. Select from two cabinet sizes: small and large. Small cabinets can contain up to four analog inputs which can also be intrinsically safe, or four differential pressure transmitters. Large cabinets can accommodate up to 12 differential pressure transmitters and up to 32 analog input channels with intrinsically safe options.

Communication is achieved over Ethernet to the viewLinc server database. CAB100 is an ideal solution for many monitoring applications, providing device protection, economy and serviceability.

The lockable metal enclosure protects the measurement instruments from tampering and accidental damage.

The Benefits of Centralization

It is often impossible or impractical to run power or network cables to each desired point of measurement. With CAB100 you can centralize and economize by running a single power and network cable to the cabinet to support numerous transmitters, while also reducing the number of network adapters needed.

Centralization of measurement devices also simplifies serviceability. With multiple transmitters and data loggers located together, regular maintenance activities like calibration are easy and efficient.

CAB100 Configuration Options

Cabinet Size	Small (model CAB100A) Large (model CAB100B)	400 × 300 × 200 mm (15.75 × 11.81 × 7.87 in) 600 × 500 × 200 mm (23.62 × 19.69 × 7.87 in)
Power	Power supply	Within cabinet: 24 VDC / 2.5 A To cabinet: 110 ... 240 VAC
	Power over Ethernet [1]	Power over Ethernet, with loop power, without fan
Analog Channels	4 ... 32 channels	4 ... 20 mA
Safety Barrier **Galvanic Isolator**	1 ... 16 pieces 1 ... 12 pieces	1 barrier per channel 1 isolator per channel
Differential Pressure	1 ... 12 pieces	±60 Pa or ±0.25 in H_2O
Ethernet Communication	Large cabinet	Up to 2 serial-to-Ethernet devices via RJ45 (DIGI PortServer TS4)
	Small cabinet	Vaisala vNet Ethernet interface for DL series data loggers with PoE option via RJ45 connector
Ethernet	Ethernet switch	+4 PoE IEEE 802.3af/at
Standards	EN/IEC61326-1 (Basic electromagnetic environment)	EN55032 Class B IEC/UL/EN 61010-1 IP66/NEMA 4 (large CAB100) / IP54 (small CAB100) Safety listed in USA and Canada [2]

1) Only with PDTs and small CAB100.
2) Safety listing pending.

CAB100 supports internal differential pressure transmitters, analog inputs, and safety barriers or galvanic isolators.

For accuracy specifications, see devices on www.vaisala.com

- DL4000 data loggers for multiple parameters
- PDT101 differential pressure transmitter
- HMT360 series transmitters for intrinsically safe temperature and humidity measurement
- HMT120/130 series transmitters analog inputs