



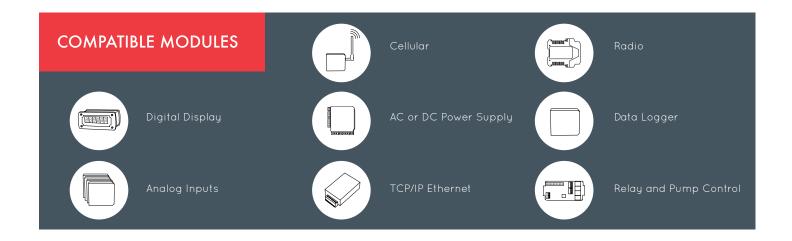
CONNEX 3DTM (CD3D)

Flexible Process Meter

The CONNEX 3D™ is a revolutionary concept in the process meter market. Featuring snap-in performance enhancing modules, such as cellular connectivity, analog inputs, or relays, the CONNEX 3D™ Flexible Process Meter truly provides the unique ability to customize the unit to your exact needs. Think of the modules like Legos®, pick and choose from a wide variety of options that plug into your CONNEX 3D™ to create a unique system to fit your exact needs. Modules can be added at any time, so if you purchase a base model, you have the option to add additional features/modules at a later date. The performance modules include: Integral or Remote Display, Analog Inputs, AC input, TCP/IP Ethernet, USB data logger, Relay and Pump Control, Radio, and Cellular Connectivity and Cloud Portal.

The CONNEX 3D™ is industry's first process meter that connects standard analog inputs which can be displayed and transmitted via RS-485 Modbus serial remote I/O with TCP/IP Ethernet, Auxiliary Relays and standard isolated analog output. The CONNEX 3D™ provides the user flexibility to configure any analog input into a stand-alone or distributed monitoring and control system.

The CONNEX $3D^{\mathbb{M}}$ has the added dimension of wired or wireless monitoring with or without local or remote field display for added versatility. All configurations of the monitoring system are provided with either PC software or cloud-based web portal for monitoring, data gathering, data reporting, alarm alerting via SMS and email, alarm historian for post-mortem analysis. FLO-CORP's cost-saving hardware and software design provides process control and factory automation solutions so you can seamlessly switch from other analog or RS-485 transmitting devices to the new CONNEX $3D^{\mathbb{M}}$ monitoring and control solution.



FEATURES & BENEFITS

- Customizable performance modules, can add more modules at a later date
- RS-485 Field or Panel display interface, providing field and plant operations vital process information data
- Provides local and/or remote monitoring
- Simplify I/O management with innovative software
- Wide operating temperature range (-40 to 167°F)

- Monitor any number of analog inputs
- Supports Ethernet TCP/IP Network Connectivity
- Flow totalize and grand totalize with remote reset
- Ships from factory pre-configured for customer's application to ensure easy installation and setup
- 5 Year Warranty

MODULE DESCRIPTIONS



DIGITAL DISPLAY (CDDM)

The Digital Display (CDDM) Module can be mounted remotely or integral (or both) to the CONNEX 3D™ process meter enclosure. The bright 6-digit red LED display can be viewed in bright sunlight or the dark of night. Pushbuttons on the face of the module provide easy user interface functionality to clear flow totals, select input channels or enter into the program mode of the system that is being monitored.



ANALOG INPUTS (CAIM)

The Analog Input/Output (CAIM) Module provides the input from a variety of standard analog inputs such as flow, level, pressure, temperature, pH and analytical inputs to standard field instruments and measurements. Analog input modules offer superior isolation and filtering for input and output to meet integrated system monitoring solutions.



CELLULAR (CELL)

The Cellular (CELL) Module turns the CONNEX 3D™ process meter into a wireless remote monitor that communicates to field and host devices via RS485. Application data is wirelessly transmitted through cellular data to a cloud based server, allowing the user to monitor their application on a smart phone, tablet, or PC. The online portal allows the user to monitor multiple tanks, check the network status and battery levels, and view tank inventory and alarm information.



POWER SUPPLY (CPSM)

The Power Supply (CPSM) Module supplies a highly efficient regulator which generates the power conversion with lower heat dissipation that traditional power supplies. Conversion from standard AC 120/240 VAC power to 12 or 24 VDC power is DIN rail mount for integral CONNEX 3D monitor and field instrument DC power requirements.



TCP/IP ETHERNET (C485)

The TCP/IP Ethernet (C485) Module provides serial server network connectivity for virtually any type of serial device. The TCP/IP serial server supports a wide range of protocols using serial tunneling. This feature enables the CONNEX 3D™ Process Meter to communicate over TCP/IP as if they were communicating over a serial COM port.



RADIO (CDRM)

The Radio (CDRM) Module is a wireless I/O monitoring solution solving vast numbers of industrial automation challenges using point-to-point radio communications. Never trench or run conduit and wires again. The savings of hardware and installation cost is significant and will provide fast, reliable remote monitoring and control/alarming to the CONNEX $3D^{\text{TM}}$ monitoring solution.



DATA LOGGER (CDDL)

The Data Logger (CDDL) Module combines high performance and flexible configurations in one easy to use solid-state storage device. Using high accuracy digital serial data input from single or multiple devices that can be addressed monitoring up to 8 devices in one module. USB and RS-485 ports are built-in for easy plug-in connections to facilitate programming, realtime monitoring and PC interface for data logged downloads for remote and/or local retrieval of data.



RELAY AND PUMP CONTROL (DXM1)

The Relay and Pump Control (DXM1) Module features a relay setpoint for rate or total capabilities. Add functionality such as control, alarm monitoring, batch control, and batching systems to the CONNEX 3D™ Process Meter.

NOT E: For complete description, specifications, and more please see individual module specification sheet found at www.flo-corp.com/product-category/monitors

(877) 356-5463 | (p) 330-331-7331 | (f) 330-331-7172 | www.FLO-CORP.com | © 2018 FLO-CORP | REVA 0518 | PATENT PENDING

ORDERING INFORMATION

FLO-CORP MODEL NUMBER BUILDER

For Assistance Call 877.356.5463

Example: CDRM-ID-3-IMEM-DLNX-NCDL-OE CONNEX 3D™ CD3D with digital integral display, 3 analog inputs, AC input, with Ethernet TCP/IP, USB data logger, no relays, no cellular modem with remote monitoring software in an optimum NEMA 4X enclosure.

CD3D -CD3D **DIGITAL DISPLAY** MODULE (CDDM) (1) ___ **ID)** Integral Display (2) **ID)** Remote Display (NEMA 4X) ND) No Display

ANALOG INPUT MODULE (CAIM) (3) -

- 1) 1 analog input
- 2) 2 analog inputs
- 3) 3 analog inputs
- 4) 4 analog inputs

POWER SUPPLY MODULE (CPSM)

IM) AC Input

NI) DC Input

TCP/IP ETHERNET MODULE (C485)

EM) TCP/IP Ethernet

NE) No TCP/IP Ethernet

DATA LOGGER MODULE (CDDL)

DL) Data Logger

ND) No Data Logger

RELAY AND PUMP CONTROL MODULE (DXM1)

DX) Relay and Pump Control

NX) No Relay and Pump Control

WIRELESS COMMUNICATION MODULES

CM) Cellular (CELL)

RM) Radio (CDRM)

NC) No Wireless Communication

MONITORING SOFTWARE

CP) CONNEX 3D™Online Cloud Portal

NS) No Monitoring Software

ENCLOSURE TYPE _

- **DR)** DIN Rail (surface or DIN rail mount)
- **CE)** Compact (6.5" x 5.5" x 4.5") NEMA 4X
- **OE)** Optimum (13" x 8" x 6") NEMA 4X
- **XP)** Explosion Proof (8" x 10" x 6-1/8") NEMA 7

- (1) Select the best configuration based on your requirements
- (2) The Optimum Enclsoure (OE) is required with integral display
- (3) If more than 2 analog inputs are required, the Optimum Enclosure (OE) is required

CONNEX 3DTM Flexible Process Meter Pick and choose from a wide variety of modules to create the best fit

Select > Connect > Monitor

The CONNEX 3D™ is a revolutionary concept in the process instrumentation market. It is flexible, versatile and adaptable due to the variety of modules that connect to eachother. Think of the modules like Legos®, pick and choose from a wide variety of options that plug into your CONNEX 3D to create a unique system to fit your exact needs.



