

# DISOCONT® "DC-SERIES"

## Control Components

schenckAccuRate



DISOCONT® DC-SERIES  
Controllers

### INTRODUCTION

"Flexibility" best describes the DISOCONT® "DC-SERIES" controls. DISOCONT®'s, CPU, I/O, operator station and fieldbus communication links such as Profibus, DeviceNet, Modbus, and Ethernet, have been offered as "modules" which can be selected to form a very application specific control system. No unnecessary cost. No unnecessary complexity. Using the "DC-SERIES" DISOCONT® Control Modules, you can specifically decide what level of control and control responsibility you prefer to have.

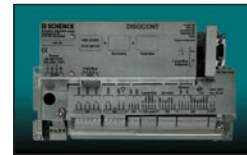
### DISOCONT® "DC-SERIES" CONTROL MODULES

#### "DC-1" SYSTEM MODULE (P/N VSE 20100)

High resolution data acquisition and control module (CPU).

Features include:

<b>Control Software:</b>	LIW, LOW, & GIW Feeders, Weighfeeders, and Mass Flow Meters
<b>Software Storage:</b>	Flash EPROM
<b>Parameter Storage:</b>	Removable non-volatile Memory Card
<b>Power Supply:</b>	Auto-sensing 24 - 230 VDC or VAC
<b>Load Cell:</b>	Up to (4) 350 ohm load cells
<b>Load Cell Connection:</b>	6-wire connection
<b>Load Cell Excitation:</b>	12 VAC
<b>A/D Resolution:</b>	24 bit
<b>Analog I/O:</b>	(1) 4 - 20 mA output (used as speed signal)
<b>Digital Inputs:</b>	(2) 24 VDC, (2) NAMUR
<b>Digital Outputs:</b>	(4) 24 - 230 VAC
<b>Communications Port:</b>	RS232 (EasyServe port)
<b>Fieldbus Communications:</b>	Profibus, DeviceNet, Modbus, and Ethernet Compatible
<b>Enclosure:</b>	DIN Rail Mounting or Polycarbonate Housing

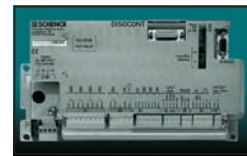


#### "DC-2" I/O EXPANSION MODULE (P/N VEA 20100)

An independently powered digital and analog I/O expansion module.

Features include:

<b>Power Supply:</b>	Auto-sensing 24 - 230 VAC or DC
<b>Analog Inputs:</b>	One (4 - 20mA) Isolated
<b>Analog Outputs:</b>	One (4 - 20mA) Isolated
<b>Digital Inputs:</b>	Four (24 VDC)
<b>Digital Outputs:</b>	Five (24 - 230 VAC)
<b>Totalizer Pulse Output:</b>	One
<b>Printer Port:</b>	RS232 Serial
<b>Max. Distance from System Module:</b>	325 Feet (100 Meters)
<b>Enclosure:</b>	DIN Rail Mounting or Polycarbonate Housing



#### "DC-3" PARAMETER MEMORY MODULE (P/N VSM 20100)

Removable, non-volatile memory module for power-safe storage of control parameters. Following a power failure, operating parameters stored in the Memory Module are automatically reloaded by the System Module. Parameters may also be moved from one System Module to another by simply moving the desired Memory Module to the appropriate System Module.



#### "DC-4" OPERATOR MODULE (P/N VLB 20120)

A dust and moisture tight operator station consisting of an LCD display and keypad. The display offers simple B/W graphics, and text displays of feed rate setpoints, refill level, alarm values and other performance and control parameters. Other features include:

<b>Keypad Type:</b>	Tactile membrane
<b>Protection Rating:</b>	NEMA 4 Type (IP 65) face plate when mounted
<b>Enclosure:</b>	NEMA 4 Type (IP 65) enclosure optionally available
<b>Operating Temperature:</b>	Minus 32 to 122 deg. F (0 - 100 deg. C)



**For more information, please contact us at 1-800-558-0184 or Fax: 262-473-4384  
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Specifications

we make processes work

# DISOCONT® DC-SERIES Controllers

# Specifications

## "DC-5" PROFIBUS DP INTERFACE MODULE (P/N VPB 20100)

A fieldbus interface that permits a plant PC or PLC to directly control a DISOCONT®-based control system. Siemens, Texas Instruments, GE and other PLC manufacturers support Profibus communications. The Profibus DP Interface Module attaches directly to any DISOCONT® "DC-1" System Module. Key features include:

**Communication Speed:** 12 MBaud  
**Communication Distance:** 1 mile (1,600 meters)



## "DC-6" DEVICENET INTERFACE MODULE (P/N VCB 20100)

A fieldbus interface that permits a plant PC or PLC to directly control a DISOCONT®-based control system. Allen Bradley and over 500 other PLC and process equipment manufacturers produce DeviceNet compatible devices. The DeviceNet Interface Module attaches directly to any DISOCONT® "DC-1" System Module. Key features include:

**Communication Speed:** 500 KBaud  
**Communication Distance:** 1,650 feet (500 meters)



## "DC-7" MODBUS INTERFACE (P/N VSB 20100)

A hardware and software communications protocol that permits a plant PC or PLC to directly control a DISOCONT®-based control system. Most PLC manufacturers offer Modbus compatible communications.

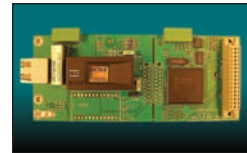
**Communication Port:** RS232, RS422 or RS485  
**Communication Speed:** 19.6 KBaud  
**Communication Distance:** 4,000 feet (1,200 meters)



## "DC-8" MODBUS ETHERNET MODULE (P/N VET 20100)

A fieldbus interface that permits a plant PC or PLC to directly control a DISOCONT®-based control system. The Modbus communication protocol is transmitted over a standard Ethernet cabling system. The Modbus Ethernet module attaches directly to any DISOCONT® "DC-1" System Module. Key features include:

**Communication Port:** RJ-45 or screw terminal  
**Communication Speed:** 10 Mbit  
**Communication Distance:** 100 meters without repeaters



## "DC-9" EASYSERVE TOOLS (SOFTWARE) (P/N VPC 20150)

A Windows 95, 98, 2000, NT or XP compatible tool kit used for configuration and diagnostics. Using "EasyServe", set-up, service diagnostics, and menu customization is done using the familiar "point and click" approach common with personal computers today.



## "DC-10" ETHERNET/IP MODULE (P/N VET 20101)

A fieldbus interface that permits a plant PC or PLC to directly control a DISOCONT®-based control system. The Ethernet/IP communication protocol is transmitted over a standard Ethernet cabling system. The Ethernet/IP module attaches directly to any DISOCONT® "DC-1" System Module. Key features include:

**Communication Port:** RJ-45 or screw terminal  
**Communication Speed:** 10 Mbit  
**Communication Distance:** 100 meters without repeaters



## "DC-11" I/O EXPANSION MODULE (P/N VEA 20101)

An integrated I/O expansion module that mounts directly in the fieldbus slot of any DISOCONT® "DC-1" System Module. Key features include:

**Analog Inputs:** One (4 - 20mA or 0-10V) Isolated  
**Analog Outputs:** One (4 - 20mA) Isolated  
**Digital Inputs:** Three (24 VDC)  
**Digital Outputs:** Two (250 V)  
**Totalizer Pulse Output:** One (36 VDC)  
**Fieldbus:** Modbus RTU (RS-232, RS-422, RS-485)



## "DC-12" BLUETOOTH RADIO MODULES (P/N VBT 28001)

A wireless configuration that allows you to change parameters on the DISOCONT® control without the need for cable hook ups. Two modules are available in protection classes IP20 and IP65.



## "DC-13" OP1 OPERATOR INTERFACE (P/N S314651.01)

A single feeder operator interface for the DISOCONT® control providing users with operation, calibration, trending, and basic diagnostics in one easy to use system. Start up is simplified by utilizing the integrated tutorial that walks the operator through each step.

