Data Collection Module (DCM)

The PlantStar Data Collection Modules provide unmatched shop floor redundancy with the capability to gather data from any machine via direct digital, analog, or serial interfaces. The newest PlantStar Data Collection Module (DCM) boasts 9 available I/O slots which can include a combination of up to 48 digital inputs, 24 digital outputs and up to 36 analog inputs. Multiple RS-232 and RS-485 interfaces can also be configured if needed. With PlantStar's Manufacturing Execution System, if your APU is down or you experience network issues, the Data Collection Module can continue to run previously scheduled jobs without interruption, then sync back up with no loss of data. Additionally, our newest Data Collection Modules can handle cycle times as low as 10ms for extremely high-speed data collection.

KEY FUNCTIONS

- Industrial strength network edge device for high-performance data collection

- Collects real-time production and process data from all types of production equipment

- Connect up to 48 machines per DCM

- Configurable with up to 48 digital inputs, 24 digital outputs and 36 analog inputs

- Integral wire management system for improved serviceability

- 24V power available for external or internal signal isolation relays

- Internal DIN rail mount for additional expansion flexibility

- Internal or external power wiring and on/off switch for improved security

- Multiple mounting and configurations; easy access front panel

- 24/7 remote support and management

SPECIFICATIONS

- Intel J1900 CPU

- 8 GB RAM

- 2x 1 GBPS ethernet ports

- Debian Linus operating system

- PlantStar Remote IO processor with high-speed USB interface

- Expandable via built-in 9 slot SPI bus backplane

- Digital I/O expansion cards with 16 input/8 output (requires 3 slots each)

- Analog I/O expansion cards with 8 inputs (requires 1 slot each)

- Multiple RS-232 and RS-485 interfaces available

- 13.4" x 16.9" x 6.25"