



Variable Speed Drive Series



TYPE 1 OR TYPE 12
OPEN DRIVE



TYPE 1
INTELLIPASS DRIVE



TYPE 12
ENCLOSED DRIVE



TYPE 3R
ENCLOSED DRIVE

- Compatibility with current and future Johnson Controls network architecture
- Closed-loop control programmed with engineering units for HVAC specific applications
- Fewer hard wired points to variable speed drive when networked
- Communication cards provide plug-and-play functionality for N2, XT Bus, BACnet®, and LonWorks®

Variable speed drives are specifically engineered for heating, ventilating, air conditioning, and refrigeration. The Facility Explorer network can control the Variable Speed Drive (VSD) Series through BACnet, XT Bus, LonWorks and N2 allowing for a lower installed cost. The VSD Series has the ability to be configured on the field controller or the XT Bus. The VSD Series can be operated and integrated using standard Facility Explorer tools for greater flexibility and controllability.

FX VARIABLE SPEED DRIVE SERIES

Integration Solution

The Variable Speed Drive Series integrates with FX field and supervisory controllers to operate as an integral piece of the system. Multiple drives can be operated from one network.

- Connects to FX20, FX40 and FX60 via communication protocols
- Adaptable to all variable speed drive applications
- FX16 and FX15 provide closed loop control to the variable speed drive using XT Bus protocol

Cost Effective Implementation

Configuring the variable speed drive on a network saves time and money and reduces the number of hardwired points for the drive.

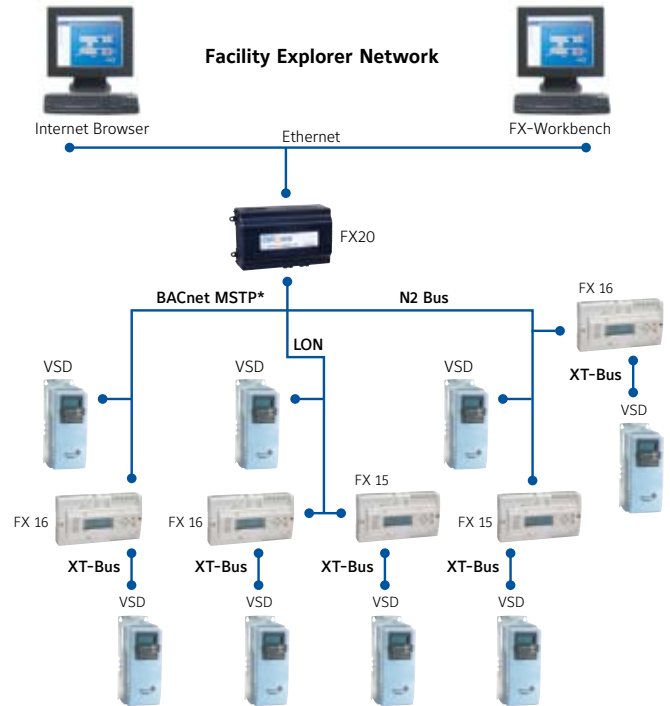
Ease of Use

The VSD Series is ideal for integrating into Facility Explorer solutions. VSD Series software is configured to operate using engineering units and HVAC applications.

Flexible System

These drives can be operated directly from the supervisory or field controllers. The variable speed drives support a wide variety of communication options.

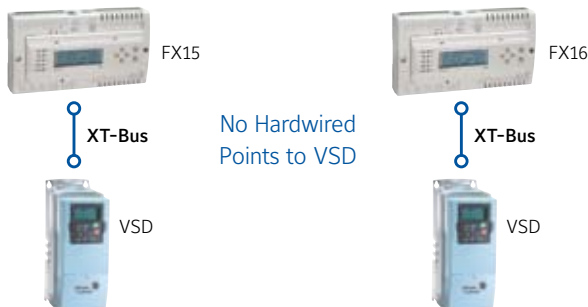
- VSD Quickstart wizard on every drive ensures quick and easy start-up
- Closed loop control from the controller or the variable speed drive



VARIABLE SPEED DRIVES DEFINED POINT MAP

| Point | Description | Units |
|--------|---------------------|---------------------------|
| XT1A1 | Speed Set Point | 0-100% (Command Feedback) |
| XT1A2 | Output Speed | 0-100% (VSD Feedback) |
| XT1A3 | Frequency Output | Hz |
| XT1A4 | Motor Speed | RPM |
| XT1A5 | Fault Code | Numeric Value |
| XT1A07 | Reference Command | 0-100% (Command Feedback) |
| XT2B1 | Drive Running | off/on |
| XT2B2 | Drive Faulted | off/on |
| XT2B3 | Hand (HOA) Active | off/hand mode |
| XT2B4 | Auto (HOA) Active | off/auto mode |
| XT2B01 | Run Command | off/on |
| XT2B02 | Reset Fault Command | off/reset fault |
| XT2B03 | Bypass Enable | off/enable |

FX15 & FX16 CONTROLLING JOHNSON CONTROLS DRIVES



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 LonWorks® is a registered trademark of Echelon Corporation.

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