COLLECTOR

GRIT VFD Collector

MODBUS automation for dust collectors running on a variable frequency drive.

The VFD Collector communicates with compatible industrial variable frequency drives over MODBUS RTU. When a GRIT Trigger reports demand, the GRIT Hub sends the configured start, stop, or speed response for the active tool or zone. Existing VFD programming, safety interlocks, and site commissioning remain part of the installed system.



Low-voltage input
12-24V DC; center-positive barrel jack

VHB mounting
Sticks inside the drive enclosure or nearby panel

Status LED
Shows on or off status.

SPECIFICATIONS

Input Power	120-240V AC or 12-24V DC	**DC Connector**	Center-positive barrel jack
Communication	MODBUS RTU	**MODBUS Terminal**	Removable
Current sensing	External CT wire lead for measuring motor amperage draw, when applicable	**Mounting**	VHB tape (included)
Connectivity	GRIT Mesh Network	**Status Indicator**	On/off LED

What's included

- 1x GRIT VFD Collector
- Wire leads for incoming power
- External CT wire lead for measuring motor amperage draw, when applicable

System fit

- For compatible industrial dust collection systems with a supported MODBUS RTU control path. Requires a supported communication interface and commands that can be added while preserving existing safety controls and interlocks. Use one GRIT Collector for each dust collector or exhaust system.

GRIT Track option: GRIT Track compatibility is available with a 30% software-upgrade charge.

Warranty: Twelve months from the original shipment date for defects in workmanship and materials when used as directed.

POWER CONNECTIONS | Updated November 14, 2026
Power range specified by GRIT: 120-240V AC or 12-24V DC. Confirm the installed assembly revision, product label, and wiring documentation before installation. Use the locking AC connector for AC input and center-positive barrel jack for DC input; never apply AC to the DC input. Component ratings do not establish whole-product certification.