



EtherCAT Interface User Guide

Overview

This option module is specifically designed to be used with the Optidrive P2 and Optidrive HVAC range of variable speed drive products and is intended for professional incorporation into complete equipment or systems. If installed incorrectly it may present a safety hazard. Before commencing installation and commissioning, the user should ensure they are fully familiar with the Optidrive P2, and in particular have read the important safety information and warnings contained in the Optidrive P2 / Optidrive HVAC User Guide.

Note

This User Guide is intended to be used with Optidrive P2 & HVAC firmware version 1.20 or later. The firmware version of the drive can be displayed in parameter P0-28. Previous versions of firmware can be upgraded using Optitools Studio PC software. Contact your local Invertek Sales Partner for further information.

Available Functions

The EtherCAT Interface is intended to be installed in the Optidrive option slot, and allows the Optidrive to be connected to an EtherCAT network. The interface offers the following functionality :-

- CANopen over Ethernet
- IEC61850 Compliant
- Fast Cyclic I/O data transfer.

XML File

An EtherCat Slave Interface Identification XML file for the interface can be obtained from www.invertekdrives.com

IP Address Configuration

If it is desired to change the IP Address, an IP address configuration tool is available for download from www.invertekdrives.com

Compatibility

This Option is suitable for use on the following product ranges:

Optidrive P2 (ODP-2-... Drives)
Optidrive HVAC (ODV-2-... Drives)

Model Code

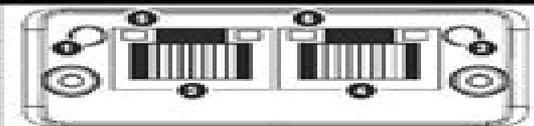
OPT-2-ETHCAT-CC

Invertek Drives Ltd
Offa's Dyke Business Park
Welshpool
Powys, UK
SY21 8JF



Layout

| Item | |
|------|---------------------|
| 1 | RUN LED |
| 2 | ERROR LED |
| 3 | EtherCAT Port 1 |
| 4 | EtherCAT Port 2 |
| 5 | Port 1 Activity LED |
| 6 | Port 2 Activity LED |



RUN LED

| State | Indication |
|--------------------|---|
| Off | INIT - Init State (or no power) |
| Green | OPERATIONAL - CoE Device in Operational State |
| Green Blinking | PRE-OPERATIONAL State |
| Green Single Flash | SAFE-OPERATIONAL State |
| Red | Fatal Error |

ERROR LED

| State | Indication |
|------------------|------------------------------|
| Off | No Power / Error |
| Red Blinking | Invalid Configuration |
| Red Double Flash | Application Watchdog Timeout |
| Red | Module Exception State |

Link / Port Activity LEDs

| State | Indication |
|------------------|------------------------------------|
| Off | No Link |
| Green | Link Established, no communication |
| Green Flickering | Link Established & Communicating |

Installation

- Ensure the drive power is removed prior to installing the option module
- Remove the blanking cover from the option module slot
- Carefully slide the option module into the slot, ensuring that the locating tabs are correctly aligned. Do not use excessive force
- Tighten the 2 clamping screws to secure the module in place



PLC Configuration

Configuration of the PLC varies between different systems. Refer to information on the specific PLC system in use for further guidance.

Optidrive Setup

- Set the drive to Fieldbus control mode by setting parameter P1-12 = 4
- Ensure Advanced Parameter Access is enabled on the drive by setting P1-14 = 501
- By default, the module supports DHCP, and the IP address will be automatically configured. If a fixed IP address is desired, this can be configured using the IP address configuration tool available from www.invertekdrives.com

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