HFD-FO-PRO-P2S

User Manual

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1. Overview

1.1 Introduction

The HFD-FO-PRO series OLM support all the transmission speeds (transmission rates) defined in the EN 50170 standard:: 9.6 kBit/s, 19.2 kBit/s, 45.45 kBit/s, 93.75 kBit/s, 187.5 kBit/s,500 kBit/s,1.5 MBit/s, 3 MBit/s, 6 MBit/s

The transmission rate is set automatically as soon as the PROFIBUS HFD-FO-PRO receives a frame. The setting or adjustment is dependent on the transmission rate. Depending on the HFD-FO-PRO Settings in automatical mode, this can last a maximum of between 0.1 s (at 12 MBit/s) and 2.5 s (at 9.6 KBit/s).If the transmission speed has not been recognized, the outputs of all ports are blocked. If the transmission rate changes during operation, this is detected by the modules, which then automatically adjust their settings accordingly.Transfer malfunctions may temporarily occur while the rate is being altered

1.2 Technical Specification

Profibus	
Connectors	Terminal
Standard	RS-485
Data Rate	9.6; 19.2; 45.45; 93.75; 187.5; 500 kBit/s,1.5; 3; 6M
Extended Distance	0~20Km

OPTICAL	
Number of Fibers	2
Wavelength	1310/1550nm
Fiber Type	62.5/125μm(MM), 9/125μm(SM)
Distance	0 ~ 2Km , 0-20 Km
Connector Type	ST/PC

GENERAL	
Operating Temperature	-30~ 70℃ / -30 ~ +158ºF
Operating Humidity	0 ~ 95% non-condensing
Mean Time Between Failure (MTBF)	> 70,000hrs
Power Supply Adaptor	DC24V
Dimensions (W×H×D)	124.5×43×88.5mm (*New Size*)

1.3 Warranty

- Repair

- Please contact your local distributors when product is defective. Please apply RA in advance and prepay shipping cost when returning the defective product to us. We will pay the cost for sending it back to you.
- Please attach a statement clearly describing the problem.

- We will repair defective product under warranty free of charge to our customer.
- 5 years warranty for product only.
- Any unauthorized modification of hardware and software voids the warranty.
- Warranty does not cover mishandling and/or abuse of the product.

2 Installation

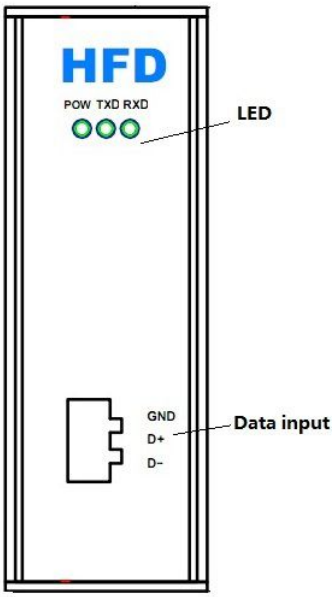
2.1 Package Contents

- TWO Fiber Optic Modem
- One User Manual

Please contact dealer or distributor if part is missing or damaged.

2.2 Enclosure

Front Panel View



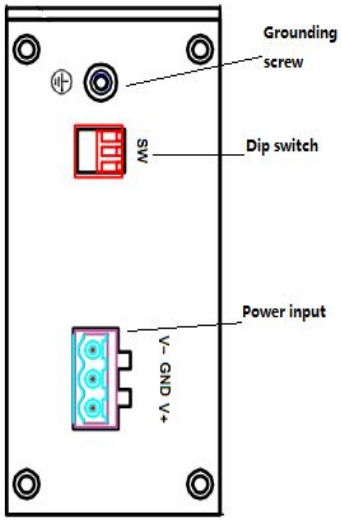
LED Indicators:

POW:	Power Supply	On if power input is OK.
TXD:	The Transmit Fiber Link	Flashing if there is activity.
RXD:	The Receive Fiber Link	Flashing if there is activity..

Data input

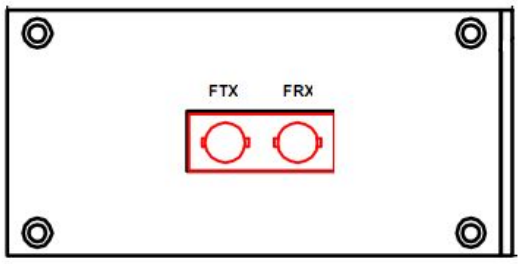
D+:Connect Profibus+
D-: Connect Profibus-
GND:GND of Poriffus

Top Panel View



V-:DC24V+
V+:DC24V-
GND:GND of DC

Bottom Panel View



Fiber Optic Connectors:

FTX: Transmitter (Fiber Optic ST)
FRX: Receiver (Fiber Optic ST)

2.3 Install Methods

1. Switch off all power supply before installation.
2. Connect the local “FTX” Fiber Optic to the remote “FRX” Fiber Optic, the local “FRX” to the remote “FTX”. And ensure that fiber is properly aligned to the receiving connector.
3. Connect the “**D+”** Data of the Profibus+ and the “T**-**” Data to the Profibus-. Then screw down the bolt.
4. On the bottom of the Modem, there is a DIP Switch., When the D2 is “ON”,it's connected to 120 Ohm terminal resistance.

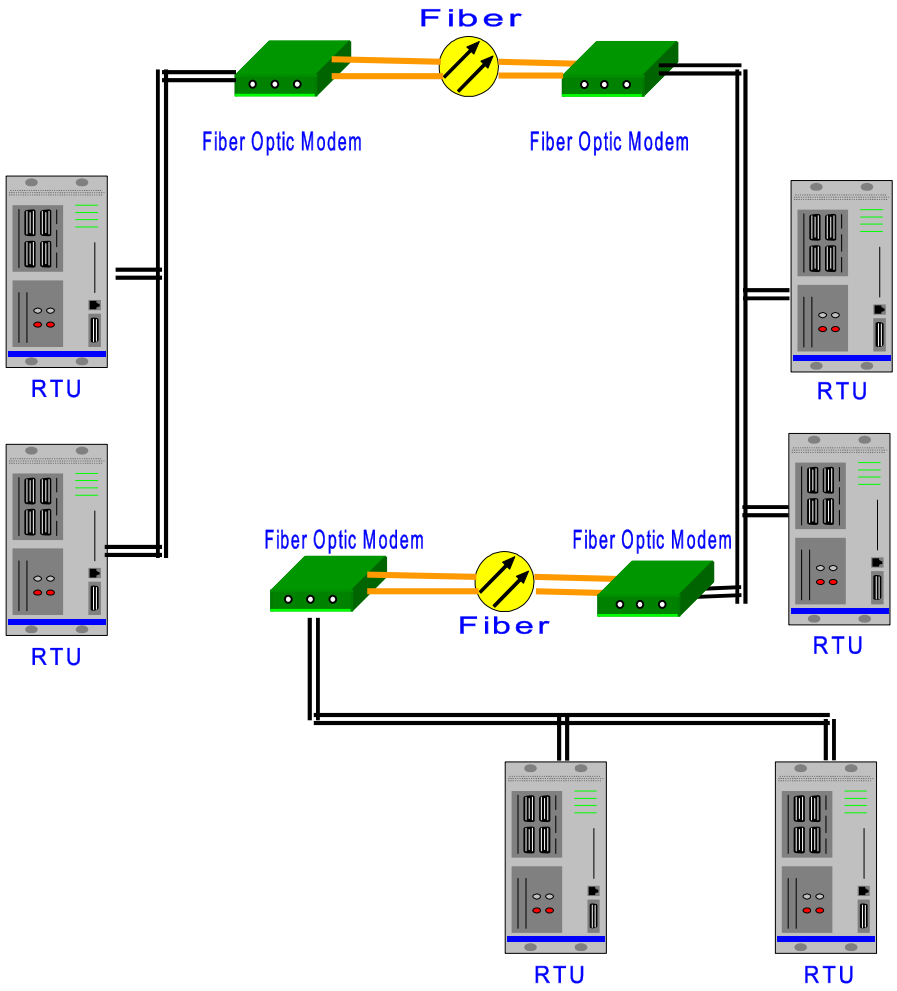
DIP Switch setup table:

DIP Switch pin name	D1	D2	D3
Setup State	OFF	OFF	OFF

120 ohm Terminal Resistance

DIP Switch pin name	D1	D2	D3
Setup State	OFF	**ON**	OFF

2.4 Install Application



3 Dimensions (mm)