



PROFIBUS DP TO FIBER OPTIC CONVERTER

DDFPC SERIES



SYNOPSIS

- THE DDFPC SERIES IS DESIGNED FOR USE IN PROFIBUS-DP FIELDBUS NETWORKS.
- IT IS PACKED WITH FEATURE LIKE DATA RATE UP TO 6MBPS (12MBPS OPTIONAL), 35MM DIN RAIL MOUNTING, REDUNDANT POWER INPUT (9V TO 30VDC), RELAY OUTPUT ALARM ETC.
- IT CONTAINS ONE FIBER OPTIC TRANSCEIVER AND ONE ELECTRICAL INTERFACE.
- DDFPC 2 CONTAINS 2 (TWO) FIBER OPTIC TRANSCEIVERS AND ONE ELECTRICAL INTERFACE.
- THE REPEATERS PROVIDE FIBER OPTIC CONNECTION IN POINT TO POINT, STAR, DAISY CHAIN TOPOLOGIES NETWORKS.

TECHNICAL SPECIFICATIONS

ELECTRICAL INTERFACE

Signal type	Profibus-DP
Data Rate	0 to 6Mbps. 12Mbps is optional
Connectors	DB9 Female
Isolation	1 KV

OPTICAL INTERFACE

Wave length	MM: 1310nm, SM: 1310nm and 1550nm
Fiber type	MM: 50/125um, 62.5/125um, 100/140um SM: 8.3/125um, 9/125um, 10/125um
Transmission distance	MM: 2Km, SM: 20Km
Fiber interface type	ST/SC/FC (optional), ST (standard configuration)
Latency	< 120nsec. Real Time performance
Transmit Power	-6.93 dBm
Rx Sensitivity	≤ -22 dBm

RELAY

Contact rating	DC30V @ 1A Max 5-pin Pluggable Screw Terminal
Alarms	Fiber link Fault and No Voltage input alarm

POWER

Input Voltage	24V DC @ 9VDC to 30VDC
Power	24V DC @ 60mA (<1.5W)
Isolation	DC 1000V
Reverse Polarity protection	
Redundant supply	
5-pin Pluggable Screw Terminal	

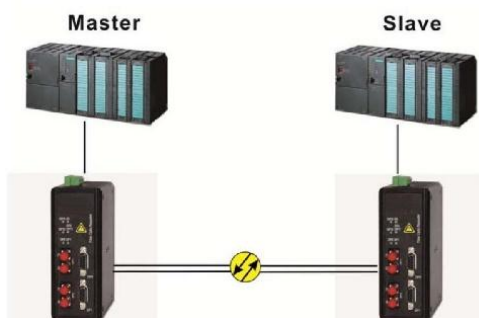
MECHANICAL

Dimensions	132mm×52mm×105mm (H×W×D)
Casing	IP30 protection, Metal case
Mounting	35mm DIN-Rail, Wall Mounting
Weight	800g

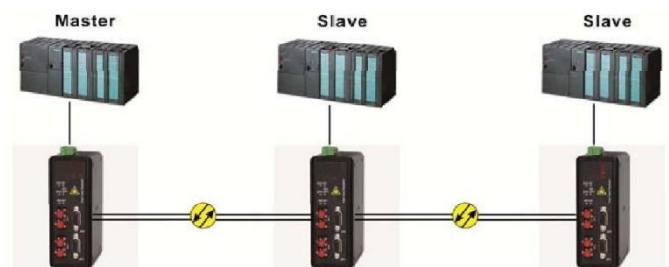
ENVIRONMENTAL

Operating Temperature	-10 to 70°C, -40 to 85°C optional
Storage Temperature	-45 to 85°C
Relative Humidity	≤ 90% (non-condensing)

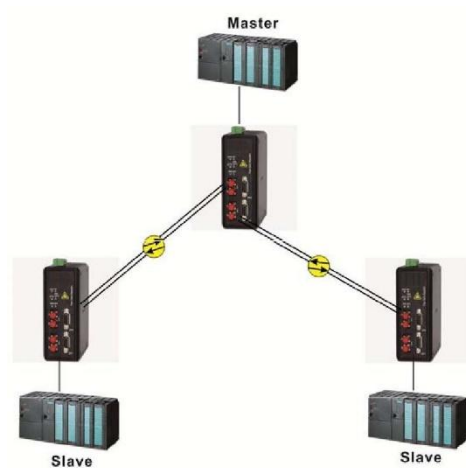
APPLICATION DIAGRAM



Point to Point



Daisy Chain



Star Topology

ORDERING INFORMATION

DDFPC X M/S YYY ZZ 24 C

DDFPC	Base Code for Profibus DP to Fiber
X	1: 1 Fiber Port 2: 2 Fiber Ports
M/S	M: MM-Multimode S: Single mode
YYY	020, Fiber Distance, 20Km is default for Single Mode
ZZ	Connector Type: SC/ST
24	24V DC Supply
C	Fixed

AVAILABLE MODEL

DDFPC 1 S020 SC 24 C	Profibus to Fiber Converter, 1* Fiber Port, Single Mode 20Km, SC Connector, Supply 24 VDC
DDFPC 2 S020 SC 24 C	Profibus to Fiber Converter, 2* Fiber Port, Single Mode 20Km, SC Connector, Supply 24 VDC