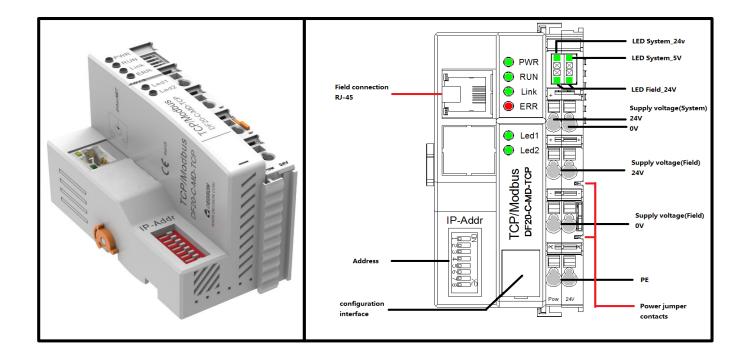
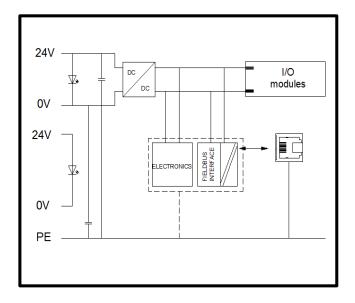


◆ Modbus TCP FieldBus / one Modbus interface (DF20-C-MD-TCP)

- DF20-C-MD-TCP the fieldbus adapter from standing and Modbus TCP/IP are linked together, Modbus TCP/IP has become the industry standard for communication protocols in industry. It automatically configures and generates local process images including analog, digital, and special functional modules. Analog module and special function module (word-by-word data transfer), digital module (bit-by-bit data transfer).
- > The fieldbus adapter is designed for fieldbus communication over ModBus TCP/IP networks.







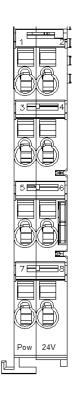
1.Specification

Technical data				
Communication	Modbus TCP/IP			
Bus segment length (max.)	100M			
Transmission medium	Twisted Pair S-UTP; 100 Ω; Cat. 5			
Transmission rate	10/100Mbps			
Number of extensible modules	16			
Support Modbus function	02,03,05,06,15,16			
Address mapping	Yes			
Alias range	2~253			
PDO DATA	1024 bytes			
Address setting	Modbus TCP/IP specification, DIP switch			
Connection type	via pluggable connector (Spring terminal blocks)			
Working voltage	24VDC (-15%~+20%)			
Current without load	<150mA			
Supply system voltage	5VDC			
1177	600mA			
Supply system current Supply field voltage				
	24V~32VDC; via power jumper contacts			
Supply field current(max.) Isolation	5A			
	500V system/field Electrical isolation			
Connection data	T			
Connection technology: communication/fieldbus	Modbus TCP/IP: 1 x RJ-45			
Connection technology: system supply	2 x via pluggable connector			
Connection technology: field supply	6 x via pluggable connector			
Connection type 1	System/field supply			
Area of wire	0.2~2.5mm ² /28~14AWG			
Strip length	8~9mm/0.31~0.35inches			
Mounting type	DIN-35 RAIL			
Material Data				
Color	light gray			
Housing material	Polycarbonate; polyamide 6.6			
Conformity marking	CE			
Environmental requirements				
Ambient temperature (operation)	-25~60°C			
Surrounding air temperature (storage)	-40∼85°C			
Protection type	IP20			
Pollution degree (5)	2, Per IEC 61131-2			
Operating altitude	without temperature derating: 0~2000m			
Mounting position	Any			
Relative humidity (without condensation)	5~95%RH			
Vibration resistance	4g, Per IEC 60068-2-6			
Shock resistance	15g, Per IEC 60068-2-27			
EMC immunity to interference	Per EN 61000-6-2			
EMC emission of interference	Per EN 61000-6-3			
Exposure to pollutants	Per IEC 60068-2-42 and IEC 60068-2-43			
Permissible pollutant concentration H2S at a				
relative humidity < 75%	10ppm			
Permissible pollutant concentration SO 2 at a relative humidity < 75%	25ppm			



2.Hardware Interface

Wiring Terminal



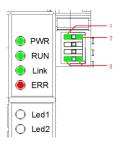
NO.	Definition	Description
1	System power 24V	Power the module. Give Goldfinger
2	System power 0V	5V.
3	Field power 241/	Power the load.
4	Field power 24V	
5	Field newer OV	
6	Field power 0V	
7	DE	Protect Earthing
8	PE	

Notes: It is recommended to use two isolated 24V power supplies to provide two power supplies

for the coupler respectively to achieve the best anti-interference performance.

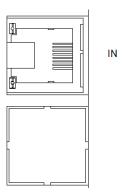


LED Indicator



Indicator	Status	Description
PWR	Green: ON	Power Normal
	Green: OFF	Power Failure
RUN	Green: ON	I/O system is running
	Green: OFF	I/O system is stopping
Link	Green: Flash	Module to establish communication,
	Green. Flash	there is data transmission
	Green: OFF	Module communication is not
	Oreen. Or r	established
ERR	Red: ON	data exchanging failure
	Red: OFF	data exchanging normal
Led1	/	/
	,	'
Led2	/	/
1	Green: ON	System Power Normal
	Green: OFF	System Power Failure
2	Green: ON	Goldfinger Power Normal
	Green: OFF	Goldfinger Power Failure
3	Green: ON	Field Power Normal
	Green: OFF	Field Power Failure

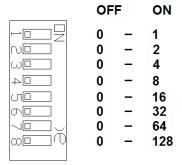
RJ45 Interface



Single RJ45 port Used to communicate with the upper computer.



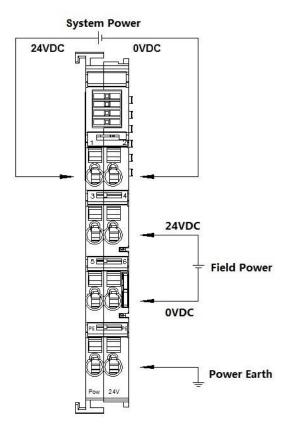
DIP switch



The DIP switch is used to set the adapter module address. It is set by an 8-bit hardware DIP switch. Each Modbus TCP adapter has a unique station address (2 to 253).

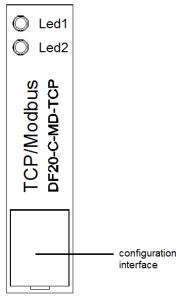
Wiring

Notes: Only the right side of the adapter is captured here because of the aesthetics.





• Configuration Interface



Set the configuration interface to facilitate the adapter program upgrade.

Notes: Non-professionals and authorized personnel are prohibited from using this interface to avoid procedural problems.

3. Machinery installation

Dimension drawing

The installation size is shown in the following figure (unit: mm):

