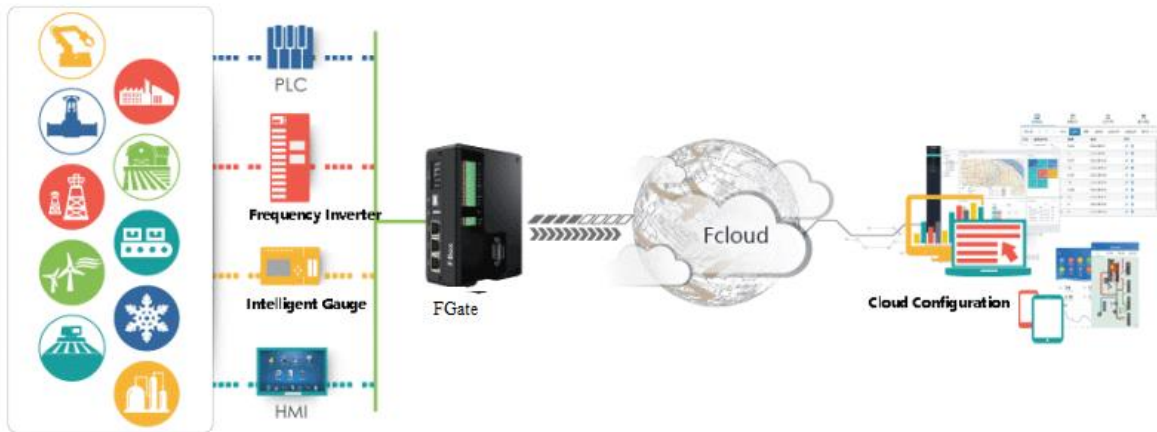# FLEXEMATiC

Flexematic IIoT Terminal FGate-4G-G

- 350+ industrial protocols connection, and it supports most industrial devices connection.

- Local data analysis can be finished and pushed to cloud server.

- It supports Flexematic remote managing tool, remote equipping and diagnosis.

- It supports historical data local cache.

- It supports edge calculation, and you can realize data calculation locally.

- It supports PLC program uploading, downloading and monitoring.

- It supports GSM.

Product Overview

FGate series products are local intelligent data collection terminals of industrial IIoT platform pushed by Flexematic, which can collect on-site devices remote data, remote downloading and maintenance.

It supports over 350 industrial devices drives protocols, various communication connections to most industrial controller devices. It supports variable internet ways and Flexematic cloud server, and you can directly use remote equipping, diagnose and managing functions.
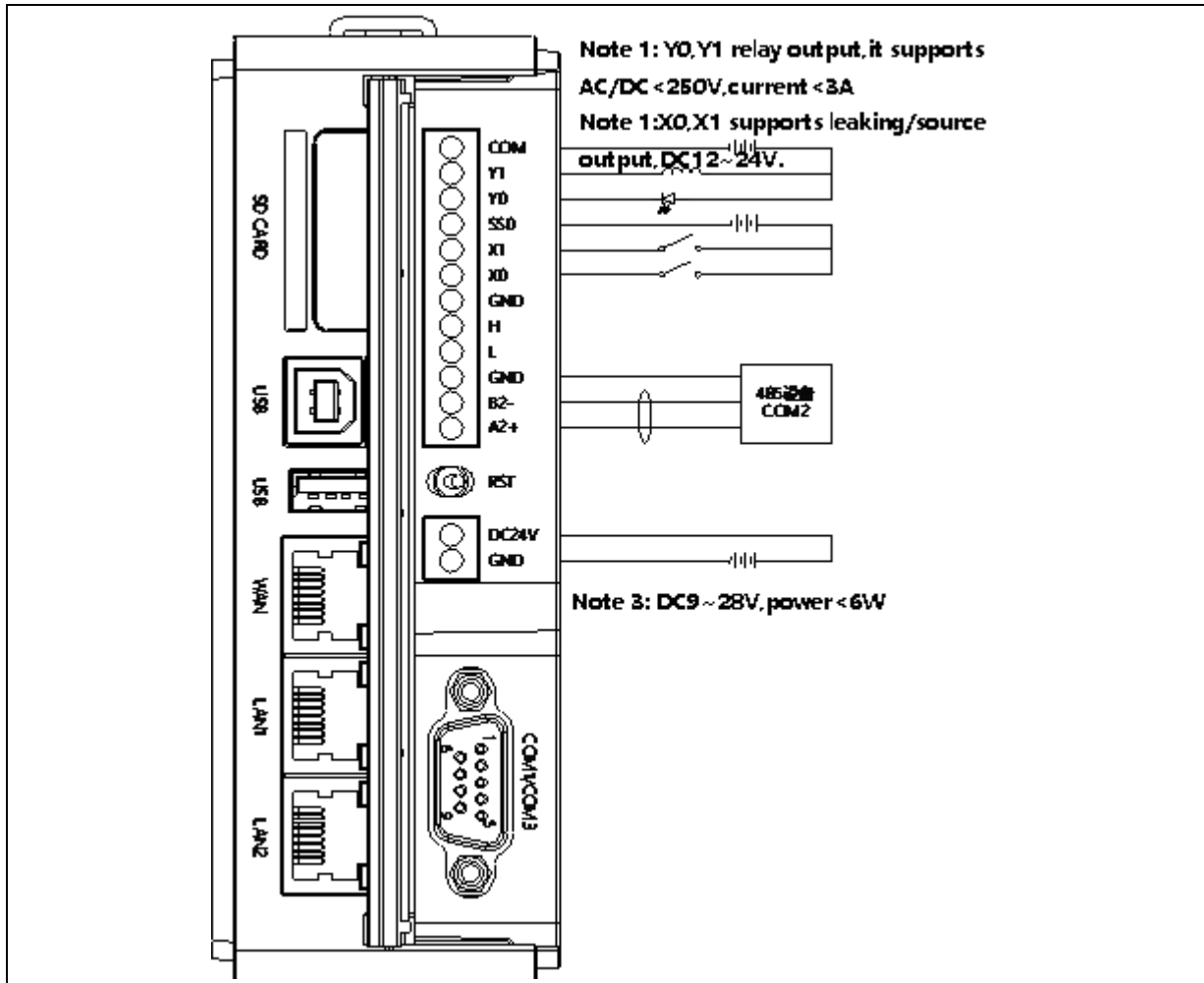
FLEXEMATiC

Product Specification

FGate-4G-G		Description
Hardware	Ethernet	Ethernet, 4G
	CPU	600MHz ARM Cortex-A8
	Storage	128MB Flash + 128MB DDR3
	Ethernet Port	3 lines of 10M/100M Ethernet Port
	SD Card Port	Available
	USB Port	1 USB Device 2.0,1 USB Host 2.0
	IO Port	2-line optoelectronic isolated digital input, 2-line relay output (Maximum 5A)
	Serial communication port	COM1: RS232/RS485/RS422 COM2: RS485 COM3: RS232
	Network Frequency Range	LTE-FDD: B1/ B2/ B3/ B4/ B5/ B7/ B8/ B12/ B13/ B18/ B19/ B20/ B25/ B26/ B28 LTE-TDD:B38/ B39/ B40/ B41 WCDMA:B1/ B2/ B4/ B5/ B6/ B8/ B19 GSM: 850/900/1800/1900MHz
	RTC	Built-in
Electrical Specifications	Rated Power	< 5W
	Rated Voltage	DC24V,working range: DC 9V~28V
	Power Protection	Protect from thunder strike and surging
	Power Loss Permit	< 3mS
	CE & RoHS	It is complied with EN61000-6-2:2005,EN61000-6-4:2007, RoHS, Surging:±1KV,Group pulse:±2KV, Electro Static 4KV,Air Discharge: 8KV

FLEXEMATiC

Environment Specifications	Working Temperature	-10~60℃
	Storage Temperature	-20~70℃
	Environment Humidity	10~90%RH (non-condensing)
	Anti-vibration	10~25Hz (X/Y/Z direction 2G/30 minutes)
	Cooling	Natural cooling
Mechanic Parameters	Dimension	130mm*94mm*48mm (without rail)
	Weight	About 320g
	Material	ABS engineering plastics
Software Parameters	VPN Pass-through	Available
	Data Monitoring	500 points, it supports timing uploading or variable uploading.
	Alarming Push	200 points, it supports clients push, SMS push (20 items free everyday)
	Historical Data	100 points, it supports offline transfer, each point can store 50000 items when offline, and the data can be kept for 180 days
	Edge Calculation	It supports scripts programming.
	Network Protocols	It supports over 100 industrial devices protocols.
	Managing& Maintenance	It supports firmware upgrading remotely, and equipping files lead in/out

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Wiring Definition

Pin1	Rx-(B） (COM1 RS485-2/4)
Pin2	RxD_PLC (COM1 RS232)
Pin3	TxD_PLC (COM1 RS232)
Pin4	Tx- (COM1 RS485-4)
Pin5	GND
Pin6	Rx+(A) (COM1 RS485-2/4)
Pin7	RxD_PC/PLC (COM3 RS232)
Pin8	TxD_PC/PLC (COM3 RS232)
Pin9	Tx+ (COM1 RS485-4)

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Dimension drawings

35mm
Standard
guide
rail