

## ***FP Modem-56k Unit Telecontrol***

The FP Modem-56k is a universal device offering not only dial-up communication but also dedicated/leased line and multidrop network communication. If the PSTN supports text message service, the PLC can send and receive a short text message.



### **Special features of the FP Modem-56k unit for industrial telecontrol:**

- Very small size
- Operating voltage 24VDC
- Attachable to a 35mm DIN rail
- Maximum line speed up to 56 kbit/s
- Leased line mode (pier-to-pier) up to 20km with 33.6 kbit/s
- Multidrop leased line mode according to V.23 at 1200bps
- DCD output for connection to the digital input of a PLC
- PSTN text message send + receive (if supported by the PSTN)
- CLIP decoder for calling line identification and callback

Combining the FP Modem-56k with the FP Web-Server expands the horizon of telecontrol even more, e.g. internet access, send e-mails, dial up a FP Web-Server for local or network access, etc.

Compliant and certified for the following countries: Belgium, Denmark, Germany, Finland, France, Greece, Ireland, Italy, Luxembourg, Netherlands, Norway, Austria, Portugal, Sweden, Switzerland, Spain, United Kingdom and US.

User libraries, e.g. Panasonic CONTROL LIBRARY "MODEM" (NCL-CM-LIB), make the integration of communication functions into PLC programs easy, saving programming time and money. Mistakes can be avoided by using well proven function blocks and program examples created by experienced programmers.

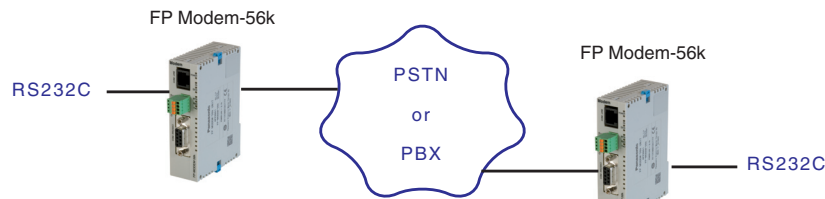


# FP Modem-56k Unit

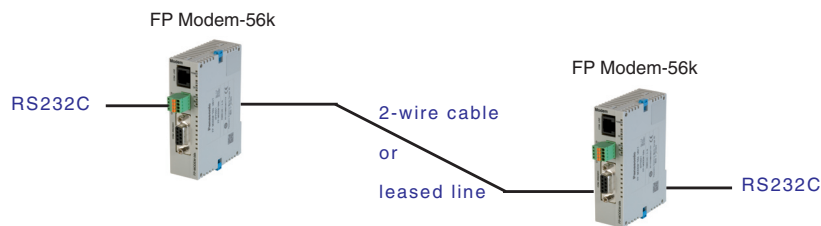
## Telecontrol

### Typical applications for FP Modem 56k:

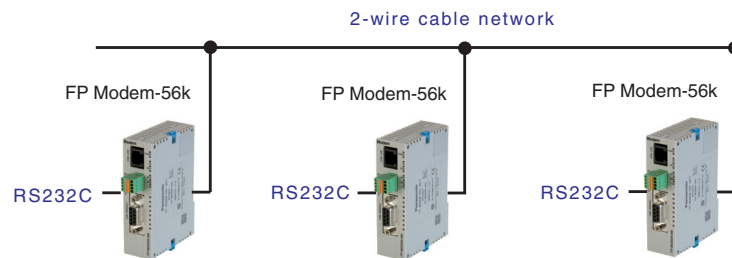
#### 1. Dial-up mode



#### 2. Leased-line mode



#### 3. Multipoint mode



### Specifications

Part number	FP-MODEM-56k
Operating voltage	24VDC (10.8 to 26.6VDC)
Current consumption	Approx. 50mA
LEDs	Power, DCD (Carrier detect), RI (Ring), RTS (request to send), RxD, TxD (Data)
Ambient temperature	0 to +55°C
Connection to PLC, PC or FP Web-Server	RS232C (Sub-D 9-pin female), RS485 (Phoenix screw terminal)
Connection to the telephone network	RJ12 jack and RJ12 - RJ12 cable, national adapter is not enclosed
Carrier detect connection	Phoenix screw terminal
Error correction	V.42, LAPM, MNP
Data compression	V.42bis, V.44
Dialing method	Pulse dialing, tone dialing (DTMF)
Control / Operation	Extended AT command set, Hayes compatible (V.250)
Operation modes	Automatic selection, V.21, V.22, V.23, V.22bis, V.32, V.32bis, V.34, V.90, V.92
DTE speed (RS232C baud rate)	300, 600, 1200, 2400, 4800, 9600, 19200, 38,400, 57,600, 115,200 bps
Line transmission speed	Up to 56kbit/s with V.90
Compliance with standards	CE compliance (including European PSTN approval) US approval (US: C04MM05B077FP)
Dimensions (WxHxD)	25 x 90 x 64mm

