

# DIN rail

## INSYS Modem PL / LL

Shape	Transmission technology						
	3G/HSPA	GSM/GPRS/EDGE	xDSL	Ethernet	WLAN	Analogue	ISDN
DIN-rail serial	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
DIN-rail network	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Desktop	<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	<input type="checkbox"/>
19" rack						<input type="checkbox"/>	<input type="checkbox"/>
Embedded module	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



### Leased line modem

The INSYS Modem 336 LL uses the same transmission technology as in the public telephone network for direct wire connections, e.g. between plant parts on factory premises. Leased line modems establish a permanent connection between 2 terminal devices. They connect with each other automatically when booting up. They are pre-configured in pairs as originate and answer version. Leased line modems can transmit the states of the digital inputs on each change and periodically to the remote terminal and reproduce them at their outputs.

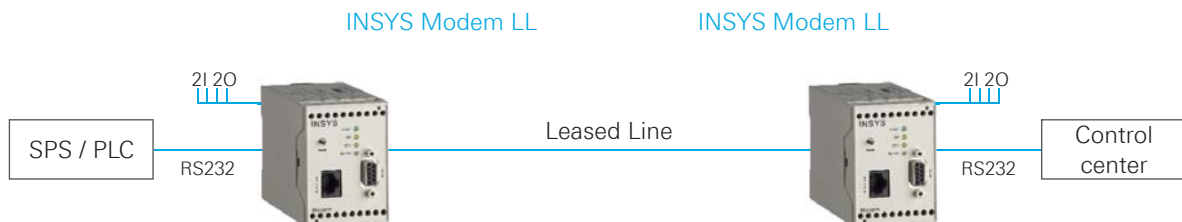
The INSYS Partyline Modem is designed for data traffic with analogue two-wire lines and can be used as an all-purpose multidrop user-to-user connection. Thanks to its robust design, it is mainly used in professional environments, such as traffic-control systems and to remotely control substations. With the so-called partyline, also described as multidrop, several devices can communicate independently with each other in one single network structure. One modem sends data, while all other modems receive data. The connected terminal device will decide which modem serves as sender.

### Features

- Partyline / Multidrop
- Leased line up to 33.6 kbps
- Adjustable transmission level
- Transmission of digital inputs
- Power supply 10...60 V DC

### Applications

- Traffic
- Data loggers
- Remote query
- Permanent data connection
- Durable control of machines and systems



## Technical data

### INSYS Modem PL / LL

	Modem PL	Modem LL
Network interface	Analogue phone network	Leased line 2- or 4-wire (configurable)
Transmission speed	Up to 1.200 bps	Up to 33.6 kbps
Watchdog		yes
Standards	Developed according to the CE guidelines in effect, manufactured according to ISO 9001:2000	

Features		
Configuration	AT commands	AT commands over serial line, remote configuration
Connection	Fixed speed setting, adjustable transmission level via AT commands	Automatic connection establishment and control, fixed serial speed, transmission level adjustable with AT commands
Digital inputs		Status transmission via IO tunneling to the receiver
Control output		Controllable with AT commands
Data formats	10 and 11 bit: 7E1, 7O1, 7N2, 7E2, 7O2, 8N1, 8E1, 8O1, 8N2 and bit transparent	
Protocols, Failure correction, compression	V.32bis, V.32, V.23, V.22, V.22bis, V.21, V.34, Bell Norm 103/212, V.42, LAPM, MNP4, MNP10, MNP5, V.42bis, V.44	V.32bis, V.32, V.23, V.22, V.22bis, V.21, V.34+, V.34, Bell Norm 103/212, V.42, LAPM, MNP4, MNP10, MNP10 EC, MNP5, V.42bis, V.44

Electrical features		
Power supply	10...60 V DC	
Inputs/Outputs		2 digital inputs, 2 switching outputs
Power consumption	3.5 W	
Application interface	RS232, 9-pin SUB-D jack	
Network interface	Screw terminal and RJ-45 (Western)	

Physical features		
Size in mm	110 l x 55 w x 75 h	
Temperature range	0 ... +55°C	
Humidity	0...95% (non condensing)	

Product description	Features	Order number
INSYS Modem 1.200 PL 5.0	Partyline	11-02-01-01-02.
INSYS Modem 336 LL Originate	2-wire leased line	11-02-01-01-31.
INSYS Modem 336 LL Answer	2-wire leased line	11-02-01-01-31.
INSYS Modem 336 LL Originate 4D	4-wire leased line	11-02-01-01-31.
INSYS Modem 336 LL Answer 4D	4-wire leased line	11-02-01-01-31.
optional: INSYS Modem 56k for dial-up line		

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