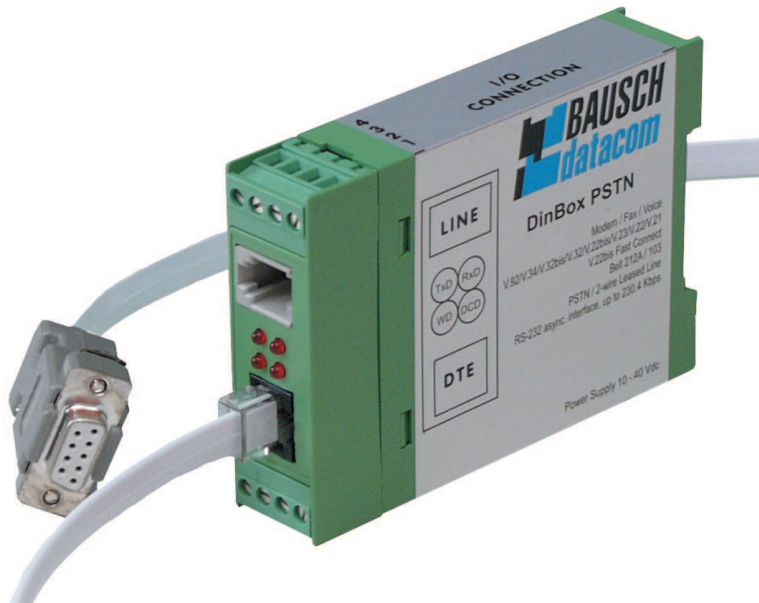


# DinBox PSTN 485 SIA

SIA & Contact ID alarm transmitter in DIN-rail housing with serial RS-232 and RS-485 interface



*The Bausch DinBox range is especially designed for industrial use offering a DIN-rail housing, embedded firmware and protocols, watchdog security, a wide range DC power supply and automated communication possibilities. The DinBox communication devices are presented in 'pocket size dimensions'.*

The Bausch DinBox PSTN 485 SIA modem was specifically designed to meet the stringent requirements for the Medical Services, Electricity Metering Industry and Alarm Equipments. The embedded SM\_H2 socket Modem with 3kV isolation is based on the most recent Conexant (Harley 2) technology. Especially for alarm equipments the modem supports the SIA & Contact ID protocol.

The DinBox PSTN 485 SIA) is a professional V.92 56K modem designed in a robust 22.5 mm wide DIN-rail housing with a wide range DC power supply (10-40 Vdc). Stable operation is guaranteed by the long term watchdog that monitors and automatically resets the modem in case of malfunction. The modem has a RS-232 and RS-485 2 and 4-wire interface. For security reasons it supports selective Caller ID answering with disabled automatic answering (ATS0=0).

Firmware adaptations according to your specifications are possible on demand !

## Typical Applications

- Alarm equipments
- Remote reading of utility meters
- Medical applications
- Micro RTU applications
- Vending machine monitoring
- Remote control
- Security alarms
- Measurement instruments
- Surveillance systems
- Point of Sales

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## Product highlights

- SIA & Contact ID Alarm Transmitter
- Industrial DINrail housing
- V.92 modem
- Wide range DC power supply (10-40Vdc)
- Watchdog circuit
- RS-232 serial interface
- RS-485 (2-4 wire) serial interface
- Secured: Caller ID detect and answering
- Distinctive ring detect

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# Specifications

- Housing** Phoenix EG22,5 ABS DIN rail housing  
(EG22.5-G/ABS GN + EG22.5-A/ABS GN)  
22.5 mm x 107.5 mm x 75 mm
- Environmental** -20°C / + 55°C  
10% - 75% (non condensing)
- Power supply** Input voltage range: 10-40 Vdc regulated  
Typical power consumption : 150 mA (Max., operating on-line)
- Modem specifications** Alarm transmitter with embedded SIA & Contact ID protocol  
V.92 SM-H2 socket modem inside, Conexant - Harley 2 - based  
3 kV isolation  
RS-232 serial interface  
2-wire and 4-wire RS-485 interface, connected via the 4 screw contacts  
Security: selective caller ID answering possible while automatic answering is disabled (S0=0)  
Modulation and protocols:  
ITU-T V.92 with PCM upstream rates up to 48 kbps, Quick Connect and Modem-on-hold functionality  
V.90, V.34, V.32bis, V.32, V.22bis  
V.22 bis fast connect and V.29 FastPOS  
V.21, Bell 212A, Bell103  
V.23 Reversing, V.23 half-duplex  
V.80 Synchronous Access Mode  
V.17/V.29 Fax Class 1/1.0 and Fax Class 2  
Data compression and error correction:  
V.44 data compression for optimal downloading  
V.42 bis and MNP 5 data compression  
V.42 LAPM and MNP 2-4 error correction  
Call Waiting detection  
Flow control and speed buffering: automatic format/speed sensing RS-232/485 serial async interface  
Serial Asynchronous host interface  
Type I and Type II Caller ID detect  
Call progress, blacklisting  
NVRAM for custom defaults  
Low power consumption  
Integrated DAA  
Extension pickup detection  
Digital Line protection  
Line -in-Use detection  
63 embedded and upgradeable country profiles

**Standard Compliances** Telecom  
ETSI ES 203021-1 V2.1.1 (2005-06)  
ETSI ES 203021-2 V2.1.1 (2005-06)  
ETSI ES 203021-2 V2.1.1 (2005-06)

**Safety**  
IEC60950-1 compliant design  
Use of safety certified components

**EMC**  
EN55024  
EN55022 class B

RoHS Compliant

## Block diagram

