

# BUFFER ONLINE INFORMATEC

Local call accounting buffer, with optical insulation between its serial input and output.

## Main Features

**Typical use.** Local call accounting buffer via serial interface.

**General description.** Local buffer, installed between PBX and call accounting computer, to receive call detail records from PBX and resend them, in real-time, to the computer. If the computer is unable to receive, CRDR's are stored in non-volatile memory and automatically sent to computer whenever it becomes ready again. Operation of the buffer is completely transparent to the call accounting software.

**Optical insulation.** Between serial input of the buffer and its output, also serial, no electricity passes, but rather only light, through an specially created circuit to provide this optical insulation. This avoids burning of serial interfaces (PBX's, computer's or both) in case of any problem with the grounding between PBX and the computer.

**Local configuration.** Buffer only requires that the baud rate be defined (the same for input and output), using a set of jumpers inside, in order to be ready for operation.

**Anti-locking circuit.** A built-in circuit, specifically dedicated to monitoring the buffer, guarantees that the hardware will never lock.

**Integral buffering.** Every byte received is stored, including control characters.

**High storage capacity.** Its 1 MByte non-volatile flash memory is enough to store, typically, 12 thousand call detail records.

**Smart sending.** If the buffer sent its data as soon as the reception PC signaled, there might be loss of records (for example, some computers tamper with the serial signals during the boot process). The buffer only send its first byte after clear to do it (as signaled by the computer) for at least 30 seconds. After that, next bytes are immediately sent as long as the computer's serial port is ready to receive.

**Reliability.** Through no-loss reception even in high traffic situation, all CDR data is collected in a 100% safe and reliable fashion.

**Compatibility with PBXs.** Buffer is totally compatible with PBX's that output its call detail record via serial interface (RS/232-C).

## Technical Specifications

### PROCESSOR

- 89C2051 @22 MHz

### DATA STORAGE

- 1 MByte Flash EPROM
- Format: not compressed
- Typical storage: 12,000 CDR's

### COMMUNICATION INTERFACES

- Input
  - Serial, RS/232-C,
  - DB-9 male connector
  - 8N1 or 7E1 or 7O1
- Output
  - Serial, RS/232-C,
  - Cable (1 m) with DB-9 female connector
  - 8N1
- Input and Output baud rate selection (via internal jumpers):
  - 1200, 2400, 4800 and 9600 baud

### COMMUNICATION PROTOCOL

- Universal

### ANTI-LOCKING PROTECTION

- via dedicated anti-locking circuit

### OPTICAL INSULATION

- Serial input and output are optically insulated

### POWER AND CONSUMPTION

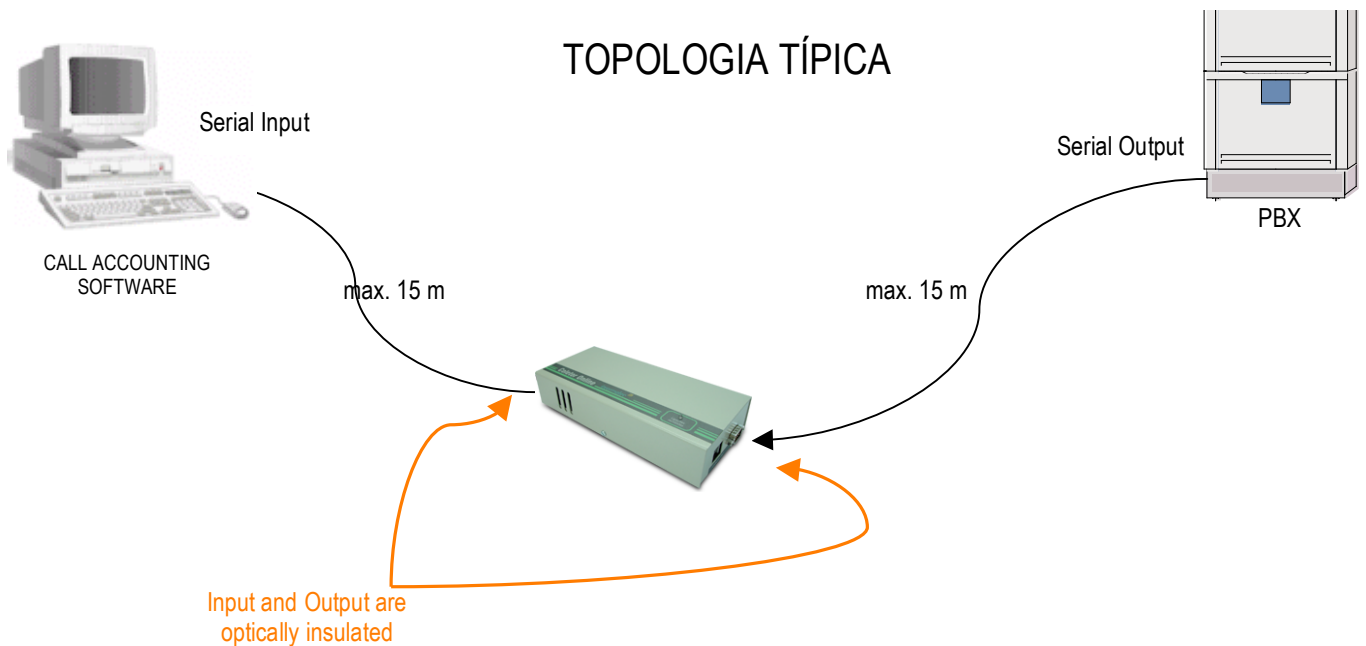
- Built-in switched power supply:
  - AC: 90-240 V, full range
  - DC: 12 V or 24 V or 48 V
- Consumption: 60 mA @48 V

### DIMENSIONS AND WEIGHT

- Height: 3,7 cm
- Width: 19,7 cm
- Depth: 8,7 cm
- Weight: 1,0 Kg

## Configuration

<b>Product codes</b>	<b>COLaaa</b> (see "Product code specification" below)
Processor	• 89C2051 @22 MHz
Interfaces	• Input: serial padrão RS/232-C, DB-9 male conector (8N1 or 7E1 or 7O1) • Output serial RS/232-C, cable (1 m) with DB-9 female conector (8N1)
Available baud rates	1200, 2400, 4800 and 9600 baud, via internal jumper
Storage	1 Mbyte Flash EPROM
Communication protocol	Universal, with 30s-delay for the first byte after a low to high transition of from the receiveing computer's RTS
Power	Available in 4 versions: • AC (90-240 V) full range or • DC (12 or 24 or 48 V)
Optical insulator	4N26
Watch dog	Hardware-based
Warranty	12 months



### AVAILABLE CODES

- COLVAC
- COL012
- COL024
- COL048

### Product Code Specification

Product codes are of the form: COLaaa  
where:

- **COL**: indicates Online Buffer
- **aaa**: indicates power supply
  - **VAC**: indicates 90-240 AC (full range)
  - **012**: indicates 12V DC
  - **024**: indicates 24V DC
  - **048**: indicates 48V DC

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