

## Gateway

## GW-23

The Gateway GW-23 acts as a local concentrator of I/O and protocol converter for peripheral units (Subsystems) for geographically distributed connections to a security supervision center (LMS /CMS) via X-28, ISDN/D, Ethernet/TCP-IP, Token Ring/TCP-IP lines and/or switched lines.

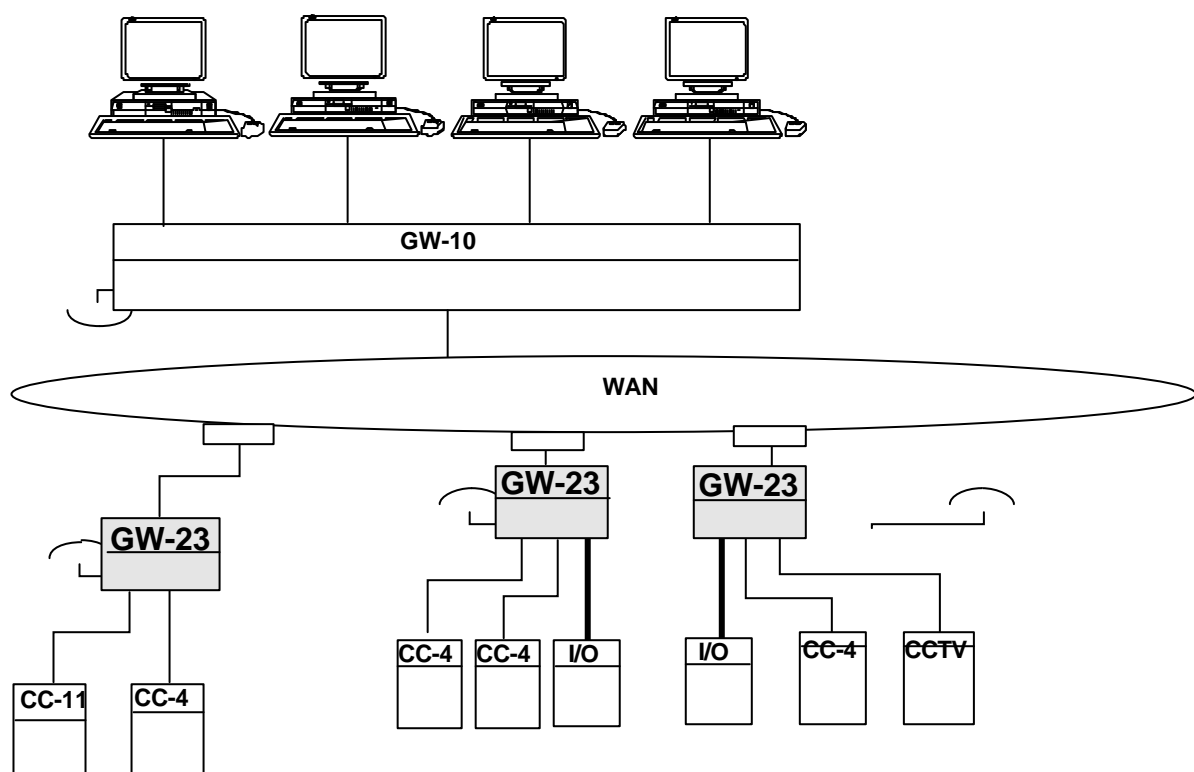
It can replace previous model GW-22.

### Features

- Low-cost, high performance unit for distributed security applications. Based on i386 CPU with MS-DOS.
- Connection capabilities for up to 3 local security control units, (only 2 units if switched line is also used); e.g. intrusion, fire, gas detection, CCTV
- Support for alarm reporting and remote unit control via WAN (Wide Area Network); network connection is via a serial adapter interface (X.28 PAD / Over-Voice adapter) or an Ethernet/Token Ring adapter
- Switched-line protocol for backup purposes can be optionally selected
- Optional direct I/O signal acquisition and control for simplest interface solutions
- The GW-23 is composed by :
  - Processor board with 4 serial ports
  - optional I/O board for digital signal processing
  - Back-plane board for connections and power regulation
  - optional modem board (X.32 bis) for switched line
- Processor board equipped with 4 serial channels, Flash EPROM, RAM, RTC, LonWorks™ communication co-processor, configuration dip-switches, diagnostic LEDs
- I/O board capable of handling 8 or 16 opto-coupled inputs (NO or NC) and controlling 4 or 8 relay outputs
- Back-plane board allocating two full-modem, D-Sub 9-pin connectors and two screw connectors, power supply block for direct 12/24 Vdc voltage source
- Modem board, complaint to X32.bis standards
- Memory buffers and Real Time Clock on board for storing and time-stamping events autonomously
- Interactions among the subsystems. An incoming message can trigger one or more control command messages
- Telephone numbers and interaction tables are stored on the 128k Flash EPROM included on base module.
- For each communication lines two separate LEDs indicates the TX/RX status
- Diagnostic LEDs for system vitality and failures on memory
- CE label: GW-23 complies with European regulations about emissions and immunity
- The GW-23.xx is available in five configurations: one for serial connections only, another for Ethernet/Token Ring and two more with additional I/O signal processing (8 / 4 or 16 / 8)
- Optionally, a 230 Vac power supply with internal battery backup is available, coded as PS-23
- Compact housing available, including pre-wired PS-23

**GW-23 configurations and options:**

- 1) *GW-23*: 1 line for X.25/X.28, Ethernet/Token Ring adapter to central system  
1 optional switched-line to central system  
3 lines for subsystems (2 if switched line used)  
includes Back-plane board with connections
- 2) *GW-23 + Eth-adp/23*
- 3) *GW-23 + TKR-adp/23*
- 4) *GW-23 + I/O 8/4*  
same as 1), plus I/O board for 8 in / 4 out
- 5) *GW-23 + I/O 16/8*  
same as 1), plus I/O board for 16 in / 8 out
- Options: *Modem-23* X.32 bis  
*PS-23*: 230Vac power supply with 3-hour



## Technical Data

Lines towards supervision center	1 full-modem RS-232 line for X.25/X.28 adapter 1 full-modem RS-232 line for Hayes modem protocol: CEI 79-5 type B 1 Ethernet adapter IEEE 802.3 10 BaseT 1 Token Ring adapter IEEE 802.5	up to 9600 bauds up to 9600 bauds
Lines towards subsystems	2 RS-232 lines with data leads only (TX/RX/SG); protocol and baud rate options configured on jumpers: - Cerberus Cerban protocol (CS-11, CS-4, CC-60) - Fichet Platon (Vision, SL) - CEI 79-5 / 79-6 type A protocol - CDDL/CDSF (Dati standard protocols)	300 or 600 bauds 1200 bauds up to 9600 bauds up to 9600 bauds
Input signal characteristics	opto-coupled dry contact or open collector outputs from other devices	
Output signal characteristics	NO or NC contact of relay	
Connectors	D-Sub 9 pin (X.25/X.28 and modem lines) screw connectors for subsystem lines and I/O signals RJ45 for Ethernet or Token Ring	
Cables (RS 232 signals)	shielded cable, with twisted pairs max. distance between the GW-23 and the devices	minimum section 0.50 mm <sup>2</sup> up to 15 mt, longer distance may be possible depending on specific conditions
Configuration	Jumpers or (optionally) Flash EPROM	
Power supply requirements	Input voltage (DC power supply) Max current absorption (GW-23 boards)  Input voltage (PS-23 AC power supply) Power (PS-23 AC power supply)	12/24 Vdc 500 mA  230 Vac (50-60 Hz) 7 W
Operating conditions	Temperature range Humidity	0 to 50 °C 10 to 95 % non condensing
Dimensions:	GW-23 boards and backplane with no cabinet GW-23 housing	170 (H) x 150 (D) x 100 (W) mm 360 (H) x 240 (D) x 460 (W) mm
Weight:	GW-23 boards and backplane with no cabinet	700 gr.

