



VICOS CSA, CSL & CS

**The Voice over IP (VoIP) Electronic from Trans Data Management**

There are 3 types of Call Points are available:

- VICOS CSA: Autonomous (Solar powered)
- VICOS CSL: Repeater (Local power supply)
- VICOS CS: Low-priced secondary call station

**VICOS CSA**

- Mains or solar power supply
- Intelligent power management for autonomous operation
- Remote powered over Ethernet with PoE PD

**VICOS CSL**

- Integrated layer 2 switch (no separate switch necessary)
- With PoE PSE for remote power supply of another VICOS CSA

**VICOS CS**

The VICOS CS is a low-priced secondary call point board, which is connected via copper to another VICOS (CSA, CSL or CSS) at a distance of up to 100m.

The VICOS can be connected directly over optical fibres; this allows long distances to be achieved, and for existing fibre optic infrastructures to be utilised.

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**Features**

- 3 inputs and 3 outputs for surveillance and control
- Dual mode operation: Hands-free or handset
- Reassurance messages (12 languages)
- Auto or remote diagnostics over SNMP
- Remote monitoring, configuration and software downloads with TDM's NIS management tools
- Direct connection of a low-priced secondary call station (VICOS SC), deployable up to 100m away

The Call Point Electronic can be delivered in the TDM enclosure of choice and can also be mounted in customer-specific cabinets.

## SPECIFICATIONS: VICOS CSA & CSL

General		Interfaces/VICOS CSL (repeater)	
Dimensions	114 x 160 x 30mm (H x W x D)	LC-Simplex (Option LC-Duplex)	2x Connectors (single /multi-mode) 100Base-FX Max. distance 20km, optional 80km
Weight	120g		Ethernet
MTBF	200,000 h	Secondary call station	
Environmental		Interfaces/VICOS CSA (autonomous)	
Operational	- 35°C ... + 65°C	LC-Simplex (Option LC-Duplex) Or Ethernet	1x Connectors (single /multi-mode) 100Base-FX (max. distance 20km) Or 1x Connector (Powered devices) 802.3af, 10 /100Base-T (RJ-45) Max. distance 100m
Storage	- 40 °C ... + 90°C		Secondary call station
Humidity	0... 90% non-condensing		
Power			
Local power supply	VICOS CSA: Nominal: 48 VDC +/-30% Optional: Wide-range +/-50% VICOS CSL: Nominal: 48 VDC +26 /-19% Optional: Wide-range +/-50%		
Autonomous power supply	VICOS CSA: Power supply with solar panel and battery (6 or 12VDC over charge controller)		
Remote power supply (PD)	VICOS CSA: PoE (Power over Ethernet): 802.3af		
Power consumption	VICOS CSA: Sleep mode; Copper connection: 96mA Sleep mode; 1x Fibre connection: 96mA Active mode; Copper connection: 1.4W Active mode; 1x Fibre connection: 1.8W		
	VICOS CSL: With Copper connection: 3.4W With 2x Optical Fibre connection: 4.4W		
Communication		Audio	
Signalling	Control: SIP (RFC 3261)	Audio Output	Volume: 80....105dB (@30cm) RASTI: 0.85 Output rating 2 W eff
Authentication	Digest Aut. MD5	Audio Input	Impedance: 3.9kOhm Type: Electret or Electrodynamic Phantom power for Electret Microphone: -50....-38dB
Codec	Optional: G.722 / G.729		
Inputs/Outputs		Approvals	
Inputs	3 inputs (optocoupler) 0.5mA isol. 1kV	EMC	EN 55022 class A EN 55024 EN 6100-6-2 /EN 61000-6-4 EN 55024: 2003 EN 61000-6-2: 2005
Outputs	3 outputs (relay outputs) 50VA, 1A, bistable, isol. 1kV, changeover contacts	EMC Railway	EN 50121-4
External input	1...4 individual programmable call buttons or a keypad with 12 buttons	Security	EN 60950-1
Service		Vibration	ISO 14837-1
Service interface	RS232	References	
		VICOS CSA	218322-20000
		VICOS CSL	218322-10000
		VICOS CS	218322-31000

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