



**Ensuring the security and safety  
of your resources and much  
more**

At the heart of the Temaline architecture is the TemaServer. Each TemaServer has its own database and is able to communicate with other TemaServers via peer-to-peer communications.

The TS\_TA TemaServer is a fully autonomous controller recording time and attendance, enabling both employee and supervisor to monitor data. Employees are able to verify date/time information and check their own data whilst supervisors can pre-configure settings.

## MAJOR BENEFITS

**Upgradable storage:** Comes with 1mb memory card enabling storage of card data, buffering and report data. Optional

8mb memory card enables storage of information on up to 60,000 cards.

**Connectivity:** Embedded LAN connection and optional modem connection (internal or external).




**Flexible:** Suitable for use with a range of mono and bi-directional reader technologies including:  
TS\_TA11 Magnetic  
TS\_TA12 Unique reader  
TS\_TA13 HID  
TS\_TA17 ISO14443A/B Smartcard contact-less reader

**Multi-purpose:** Gains employee trust by displaying time/date and acknowledging transactions performed thus improving

employee relations without requiring additional administration. Can be used as Muster station in risk areas to monitor employee presence and to aid in minimising risks.

## KEY FEATURES

- Wall Mounting
- Supports LCD Messaging
- LAN Device
- Optional reader technology
- Time & Attendance

Specification		TS_TA									
Technical		Bi-processor CPU68EN302, including a Motorola 68000 (32 bit architecture) and an Ethernet communication processor									
		1 MByte FLASH EPROM to download the application firmware									
		1 MByte FLASH EPROM or 8 MByte with extended memory on a removable cartridge for the download of the permanent database (tables of the access right of the users codes for the workdays, pre-holiday and holiday days) and for the 'Transit and Events' Buffer. Optional memory board with 8 Mbytes FLASH EPROM available.									
		1 MByte RAM for the current activity.									
		Up to 10,000 cards and 2,500 transactions stored on a removable cartridge with Flash EPROM memory in case of connection failure with the EBI_Tema host (resulting in no losses in case of a power failure). Up to 60,000 cards and 40,000 transactions with the extended memory board. See table below for details.									
		Management of the peer-to-peer connection with the other TemaServer and as a consequence high decision-making capability and full operative autonomy.									
		Autonomous clock/calendar Chip with automatic management of regular /daylight saving time with an autonomy of 1000 hours in case of power failure.									
		Lead battery backup, with full functionality for 4 hours in case of network failure, and signaling of the battery-charge status.									
		Low voltage power-supply (12 Vdc/ac) for maintenance safety.									
		Tamper protection of the unit to prevent opening.									
		Watchdog protection for recovery in case of malfunctions.									
		Tele-diagnostic in Ethernet connection.									
	Available with the following reader technologies: HID®, Magnetic, Motorola, WSE, Legic, Mifare (ISO 14443A/B)										
Electrical	Supply Voltage	12 V DC/AC -15%/+20%									
	Power Consumption	3.6 W (4.2 W max. during recharging of a fully used battery)									
	Interface	Ethernet (10BaseT) for TCP/IP-UDP connection with EBI_Tema, and peer-to-peer between the other TemaServer units									
Physical	Protection Rating	IP55 for all models except TS_TA11 which has IP31 protection degree									
	Dimensions	W=221, H=304, D=47 mm									
	Weight	3,5 Kg, (+ 0,5Kg transformer TRN01)									
Environmental	Operating Temperature	-5°C / +50°C									
	Operating Humidity	Up to 95% without condensation									
	Certification	Directive EMC 89/336/EEC, 92/31/EEC Low Voltage Directive 93/68/EEC									
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		Card & Buffer Sizes	Standard Memory Card				Extended Memory Card				
			Basic Configuration	Cards	Transactions Buffer	Event Buffer	Basic Configuration	Cards	Transactions Buffer	Event Buffer	
			Access Control	10,000	2,500	400	Access Control	60,000	40,000	5,000	
			Enhance AC / Basic T&A (Enhanced Personal data table)	6,000	2,500	400	Enhance AC / Basic T&A (Enhanced Personal data table)	50,000	40,000	5,000	
			Interactive T&A	2,500	10,000	135	Interactive T&A	15,000	65,000	1,000	
			SAP	2,500	7,000	135	SAP	32,000	65,000	1,000	

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