

The Energy-Efficient POCSAG Base Station Controller



The ITC2800 is the latest POCSAG paging base station in the ITC product range. For the new product generation, significant efforts have been made to reduce the TCO (Total Cost of Ownership). This is achieved mainly through the new Power Supply (PS19), which optimizes the energy efficiency of the device, which results in a conservation of natural resources. In this regard, the AC version offers several advantages compared to the previous generation. These include:

- Reduction of power consumption
- Shortening of the battery charging time
- Integration of a charging control system to optimise battery service life
- Reverse polarity protection
- 2 temperature sensors, one for the Power Supply and one for customer application

A new Low Power Mode decreases power consumption during idle situations. In addition, the new hardware in combination with the continuously developed ITC software offers the possibility to store factory parameters and configurations in a simplified way, which reduces the susceptibility to errors and shortens the commissioning time.

The ITC2800 integrates with ITC2500, ITC2100 and ITC2000, fully compatible with existing POCSAG networks.

Features of ITC2800

- High investment security
- Extremely long service life
- Modular design for adaptability to customer needs
- Configurability via Web-Interface
- Possibility of remote configuration via the air interface (POCSAG)
- Automatic status feedback via the air interface (POCSAG)
 - Decentralised alarm input
 - Transmission confirmation
 - Status display
- Easy installation in 19 inch rack (3RU)
- Extensive log data with comprehensive filter options

ITC2800

	Feature	Technical data
Hardware	Dimension (W x H x D)	483 mm (19"-Rack) x 134 mm (3RU) x 315 mm
	Dimension with wall cabinet housing (W x H x D)	600 mm x 350 mm x 500 mm (19", 6 RU)
	Permissible operating temperature	-20 °C to +55 °C
	Rated power / input voltage	140 W-Variant 197...265 VAC / 47-63 Hz
		200 W-Variant -57.6 VDC...-43.5 VDC
	Available frequency bands	136-174 MHz 400-470 MHz
	Frequency stability (carrier)	±1.5 ppm
	Channel spacing	12.5 / 20 / 25 kHz
	POCSAG-transmission rate	Transport Layer: 1200, 2400 or 4800 Baud Alarm Layer: 512, 1200 or 2400 Baud
	Transmitting power	1-25 W for UHF/VHF
	Base Station Controller	CPU-Modul V8/103 512 MB Flashdisk 2 GB (power-failure proof) Operating System Linux
	Autonomous operation with accumulator Pb 12 V/12 Ah	Approx. 5 h (with transmission power of 25 W and duty cycle 20 %)

	Connection	Technical data
Connections	Antenna Connection	50 Ω coaxial N-Type (single or dual antenna)
	Battery Connection	Screw Terminal, 12 V (only on AC-Version)
	Peripheral connections	Fast Ethernet RJ45 (2 x) USB 2.0 VGA (1920 x 1200) (1 x)

	Area	Type	Standards/IDs
Fulfilled Standards and Certifications	Europe	Safety	EN 62368-1
		EMC	ETSI EN 301489-1
		EMC	ETSI EN 301489-2
		Radio	ETSI EN 300113
	Germany	BOS-Approval	DAU II 17/21

	Description	Article Number
Available Options	HF Transmission Control (RC09 Subprint)	0720519
	LTE-Option	0721740
	Digital I/O-Card	0721706
	Accumulator Pb 12 V/12 Ah	0330095
	Accumulator Pb 12 V/12 Ah Longlife	0330096
	Battery holder set	0721850
	GPS-Receiver for Primary	0721718

Specifications are subject to change without notice.



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