



EDACS®

EDACS 300P  
800 MHz

*The compact, reliable EDACS 300P meets the needs of customers who require communications without compromise. This economical portable comes standard with up to 128 system/group combinations.*



## Product Overview

The EDACS 300P provides fast access to the sophisticated capabilities of M/A-COM's trunked communications system, Enhanced Digital Access Communications System (EDACS). The EDACS 300P offers the reliability and flexibility of trunking at a cost-effective price. The EDACS 300P includes an Emergency button as standard and is available in System and Scan models.

### Easy to Use

The compact, lightweight EDACS 300P is easy to operate. Wide area access allows users to roam between different EDACS sites. Emergency signaling

provides the highest priority transmission with the press of one button. The 4-character numeric display with status icon indicators is backlit for better visibility in low-light environments.

### Built-in Flexibility

The EDACS 300P has the flexibility that users desire. System and scan models are available to match individual requirements. The system model offers access to telephone interconnect via the Dual-tone Multifrequency (DTMF) or telephone-style keypad for systems with telephone interconnect. With 128 system/group combinations standard, the

EDACS 300P provides the network capacity for most applications without the additional cost of upgrades. PC programming allows users to adapt the portable to meet unique needs. Users add options as they are required to optimize communications while protecting the investment.

### For More Information

For more information about this or any other M/A-COM Wireless Systems product, call 1-800-431-2345. From outside the U.S. call +1-434-455-9489.

## General Specifications

### Dimensions (H x W x D):

Minus Knobs and Antenna

With High Capacity Battery:

5.16 x 2.32 x 1.78 in.

131 x 59 x 45 mm

With Extra High Capacity Battery:

5.16 x 2.32 x 1.90 in.

131 x 59 x 48 mm

### Weight:

Radio (Without Battery):

5.1 oz (144.7 g)

Radio and High Capacity Battery:

12.8 oz (365.3 g)

Radio and Extra High Capacity

Battery:

14.3 oz (406.6 g)

### Input Voltage:

7.5 VDC (nominal)

### Shock:

1 meter drop (per TIA/EIA 603)

### Ambient Temperature Range:

-22 to +140°F (-30 to +60°C)

### Relative Humidity:

90-95% at 122°F (+50°C)

### Altitude:

Operational: 16,400 ft (5,000 m)

In Transit: 50,000 ft (15,240 m)

### Case Color:

Black

## Options and Accessories

Speaker microphone, single unit charger, PC programming software and cable, case, belt loop, swivel mount, and strap.

## Intrinsically Safe Options

Factory Mutual Intrinsically Safe for Class I, II, and III, Division 1, Groups C, D, E, F, and G; Nonincendive for Class I, Division 2, Groups A, B, C, and D.

## Transmitter

	800 MHz (EDACS)	800 MHz (Talkaround)
Frequency Range (MHz):	806-824 MHz	851-869 MHz
Frequency Separation (kHz):	25 (12.5 NPSAPC)	25 (12.5 NPSAPC)
Rated RF Power (W):	3.0/1.0	2.5/1.0
Frequency Stability (-30 to +60°C; +25°C Ref) (ppm):	+/-1.5	+/-1.5
FM Hum and Noise (dB):	40	40
Audio Response:	Meets TIA/EIA-603	Meets TIA/EIA-603
Audio Distortion:	<5%	<5%
Spurious and Harmonics (dB):	Meets TIA/EIA-603	Meets TIA/EIA-603
Modulation/Deviation (kHz):	5.0 kHz max. (4.0 kHz NPSAPC)	5.0 kHz max. (4.0 kHz NPSAPC)

## Receiver

	800 MHz (EDACS and Talkaround)
Frequency Range (MHz):	851-869
Channel Spacing (kHz):	25
Sensitivity (12 dB SINAD) (dBm):	-116
(µV):	0.35
Selectivity	
25 kHz (dB):	65
12.5 kHz (NPSAPC) (dB):	20
Intermodulation (dB):	65
Spurious Rejection (dB):	60
Rated Audio Output (mW):	500

## Environmental Specifications

Standard	Parameter	Methods & Procedures
U.S. MIL-STD-810E	Low Pressure	500.3, I & II
	High Temperature	501.3, I & II
	Low Temperature	502.3, I & II
	Temperature Shock	503.3, I
	Solar Radiation	505.3, II
	Dripping Rain	506.3, II
	Humidity	507.3, II
	Blowing dust	510.3, I
	Vibration	514.4, I, CAT 10
	Shock	516.4, I
	Transit drop	516.4, IV

## Regulatory Data

Frequency Range (MHz)	RF Output (W)	FCC Type Acceptance Number	Applicable FCC Rules	Industry Canada Certification Number
806-869	3.0	OWDTR0001-E	Part 90	363-619-5665A