

# EDAC 700



EDAC voice autodiallers provide a cost-effective solution for remote monitoring, controlling and interrogating applications.

The autodiallers can report via telephone, cell phone, or pager networks. Analogue or Digital state or alarm can be monitored. Equipment can be remotely controlled.

The autodiallers are used in applications in just about every industry. Wastewater, manufacturing, horticulture, agriculture, irrigation, hospitality, telecommunication, petroleum and many more industries have realised the cost-effective solution that can be provided by the EDAC voice autodialler.

The EDAC700 RTU has 20 I/O configurable as either digital output, digital input or analogue input.

The I/O can be grouped together to initiate an appropriate response for each group with the aid of the call list, time frame and roster functions. This allows the end user to map specific skills to a malfunction, response trigger or alarm condition for a specific time of day.

Service personnel can remotely interrogate the EDAC700 RTU to confirm the status before embarking on a lengthy journey. Access to the unit is controlled by passwords so that the system or plant is not vulnerable to unauthorised personnel.

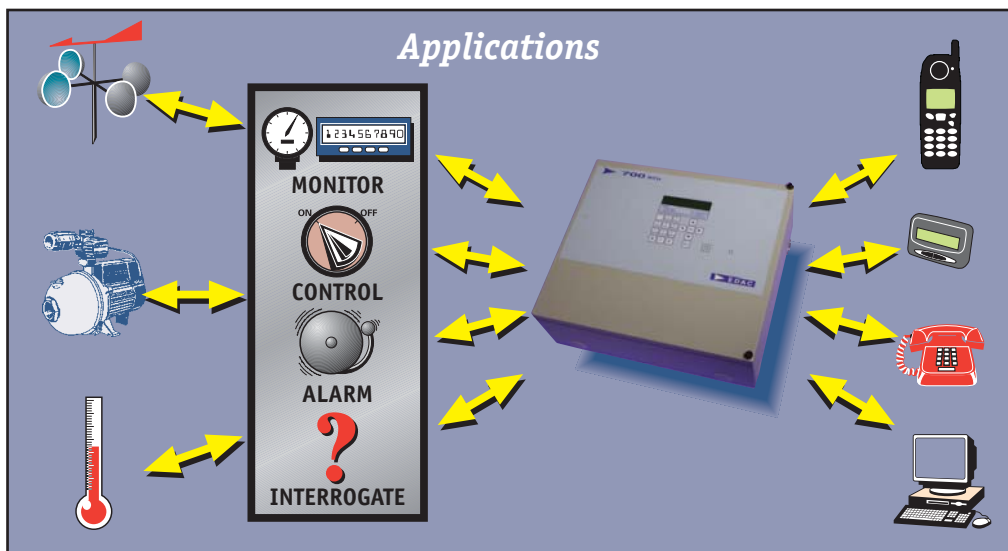
The EDAC700 RTU utilises standard telephones, cellphones, alphanumeric paging and SMS messaging to communicate its status. User recorded text and voice messages can be stored.

The EDAC700 RTU is a cost-effective platform for essential monitoring and control in a variety of applications. It eliminates the expense of third parties and enables contact to be made directly with those that need to be informed.

## Features

- 20 Programmable I/O (Digital Input, Analogue Input, Digital Output)
- Optional 20 digital expansion unit
- Input to output mapping (An input can switch on an output when triggered)
- 12 bit analogue to digital converter
- Analogue alarm with user programmable trigger points
- User programmable Voice, SMS and Alpha-Numeric Paging messages
- Pulse Accumulation and Run-Time metering
- Remote Programmable
- Password protection
- I/O Groups/Rosters/Timeframes and Call Lists
- 24 hour built in battery back up
- Non-volatile memory
- Dial-up interrogation, control and confirmation using DTMF tones.
- 40 digit phone numbers including PABX pauses
- Call Counter
- Available memory indicator
- Built in speaker and microphone
- Built in keypad and LCD display
- RS232 programming via Laptop





## EDAC 700 RTU Specifications

### Configurable Input/Output - Alarm, Monitor and Control

- Configurable as 'report only' or 'alarm notification'.
- Digital Inputs
  - Up to twenty digital inputs
    - Normally Open Contact
    - Normally Closed Contact
- Analogue Inputs
  - Up to twenty 12 bit analogue inputs configurable for either
    - 0V to 1V
    - 0V to 10V
    - 4 mA to 20mA
- Outputs
  - Up to twenty digital outputs
  - Open collector
  - 150mA maximum current
- Zener diode protected inputs up to 24VDC.
- Inputs also reverse polarity and over Voltage protected by crowbar diode.

### Voice and Pager Messages

- Up to 300 seconds of System and User Recordable Voice Messages
- 20 second voice messages per input and group (default 20 seconds can be extended)
- 40 digit alpha-numeric or numeric pager message per input or group

### I/O Messages, Groups, Call Lists, Time Frames and Rosters

The relationship between I/O Messages, Groups, Call Lists, Time Frames and Rosters enables the user to configure the EDAC700 to call appropriately skilled personnel to specific alarm conditions allowing for changes in shifts. The correct person will be notified at the correct time with a suitable report indicating the reason for being called.

- **Groups**
  - 1 to 20 inputs per input group
  - 1 to 9 outputs per output group
  - 1 group name message per group
  - groups can be either input or output but not both
- **Call Lists**
  - 1 to 20 telephone numbers per call list
- **Time Frames**
  - choice of timeframe (day/night)

- **Rosters**
  - unlimited rosters
  - only one active roster at a time

### Programmable Parameters

- Up to 20 telephone or pager numbers per call list.
- One voice, alphanumeric pager and SMS/text message per physical input and I/O group.
- Up to 40 digits for telephone or pager number.
- Reporting and System Messages
- 4 digit security PIN numbers
- Groups, Call Lists, Rosters, Time Frames

All functions are programmed using the keypad and LCD display, the RS232 port or via the modem with hyperterm and/or 700 link software.

### Communication

- PSTN Line Interface - standard RJ45 connectors
- RS232 port
- Internal 14k4 modem
- 2 line 20 digit LCD display
- 18 key splash-proof keypad

### Microprocessor and Memory

- Motorola HC11 microprocessor
- RAM: 64KB program and database memory
- Flash RAM: 4MB for OS and voice messages

### Electrical

- Input Voltage: 10VDC to 30VDC
- Input Current: 300mA normal operation
- Battery Backup: 12V 7A/Hour battery capable of over 24 hours normal operation

### Mechanical

- Weight: 10 kg
- Height: 303 mm
- Width: 343 mm
- Depth: 120 mm



Electronic Data Acquisition and Control

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