



ARC-10

Alarming & Remote Control Unit

M2M Functionality
Vers. 2.0 – January 2020

Infinite ARC-10 is a GSM device for alarming and remote control via SMS. It is designed to meet the requirements of a wide range of applications from simple to complex.

An ARC-10 is capable to communicate with other ARC-10 devices to perform M2M control functions. Using machine to machine (M2M) SMS commands ARC-10 devices, on event can send commands to other ARC-10 devices to perform a local action.

For example at a water tank a low level digital event can trigger an SMS message to a remote pump station to start a pump to refill the remote tank.

Any number of ARC-10 units can communicate with each other using the M2M functionality. Digital transition events can trigger M2M messages to remote stations and maintenance personnel.

The ARC-10 can interact concurrently with users and any number of other M2M devices like the SCOM-100, BSC-50, or ADU-500. Any number of devices can interact with to each other.

We give below an example of a simple application between 2 ARC-10 devices where digital input one on the 1st ARC-10 causes an Output to close for 2 seconds on the remote ARC-10.

ARC-10 Number 1



On a DI1 0-1 transition send an M2M SMS to ARC2

ARC-10 Number 2



When an incoming M2M SMS arrives from ARC1, DO 2 will go on for 2 seconds

You need 2 SIM cards with no PIN number, plus an administrator phone number. Programming can be done with hyperterminal or with BSC configurator or SMS messages to the devices.

Programming for ARC-10 Number 1

To set an administrator	1234UN:Administrator phone number
To set the 2nd ARC as a user	1234UN:ARC2phone number
To disable SMS responses	1234RSPD
To enable M2M functionality*	1234M2M:1
To set the type of alarming on DI1 to 0-1 transition	1234I1AM:0
To set the M2M message for the 2nd ARC	1234E1:1234O2ON

Programming for ARC-10 Number 2

To set an administrator	1234UN:Administrator phone number
To set the 2nd ARC as a user	1234UN:ARC1phone number
Enable user digital relay output DO control	1234UCE
To disable SMS responses	1234RSPD
To set the ON duration for output 2 to 2 seconds	1234O2:2

*M2M functionality disables the station name being transmitted as a header in alarm messages