

P318M applications

Supplementary information
Alarms, monitoring and notification



A summary of P318M variants available.

P318MDP (firmware for DDP & DDF)

- Messaging to DECT handsets from pre-programmed Direct Line Contacts (DLCs)
- Up to 32 DLCs may be programmed as inputs or outputs to call users or teams
- A number of input protocols are supported: RS485 (Access 3000 devices), RS232 Tele-locator Alphanumeric Protocol (TAP), Association of Pocket Communications Equipment Manufacturers Protocol (ESPA) or Multitone Electronics Protocol (MEP)
- EkoTek, which has TAP and ESPA output, may be linked with P318Mx where TAP or ESPA input is allowed for messaging to fobs and DECT handsets

The Access 3000 system bus allows the system to be extended by adding additional hardware modules:

- computer interface cards – allowing additional serial connections to nurse call/fire panel or devices
- wide area dial – send messages to wide area pagers and SMS to mobile phones
- Field Configurable Protocol Converter (FCPC)
- additional DLC cards (note external DLCs have slightly less functionality e.g. external contacts can't be operated from the handset)
- provides DLC output activation from the handset using the MSF handset feature
- additional input protocols are also available: Austco, nursecall and MSP (Scope) paging
- the DLC messages and the user records are programmed into the P318M using the management terminal

Differences in firmware operation:

- normally firmware DDP will be used
- DDP accepts TAP input and, in addition to DECT output, will allow paging output on wide area channels
- the P318MDP is the master and other paging hardware may be connected

Firmware DDF will be needed if the P318M is to be connected to another Access 3000 system; DDF accepts TAP input and sends DECT output, but does not allow paging to go out on wide area channels (this avoids a ping-pong effect where calls can go back and forth between both systems continuously).

CH72 DECT handset



CH6020 DECT handset



P318MDA



P318MDA-128 duress – for use with CS100*, CS600*, wireless server 8000, DECT and paging

- This is an enhanced variant of the P318MDP with additional software to provide duress alarms and location for DECT users
- The location feature requires that the CS600* CCFP has an SMS licence installed
- CS100* has MSF included as standard and no licence is required
- The application uses the long key press function for keys seven, eight and nine, a feature that is available on the Multitone CH70 (4K software and later), CH72, CH74 and CH76 handsets to initiate, acknowledge and cancel duress alarms
- A DLC alarm contact is dedicated to the duress alarm and will be active whilst any duress alarm is present. This can be used for audible or visual alarm alerts

P318MDS (firmware DDS) – for use with paging and DECT

- P318MDS is required when DECT will be added to an existing Access 3000
- Alarms and alarm data on the Access 3000 will allow messages to be sent to the DECT handsets
- Allows DECT handsets to be called from an Access 3000 (or similar – RPE920, P318MDP, P318MDE)
- There is limited functionality from DLC inputs
- Provides DLC output activation from the handset
- EkoTek, which has TAP output, may be linked with P318Mx where TAP input is allowed for messaging to fobs and DECT handsets
- The DLC messages and user records are programmed into the Access 3000, Access 1000 or Access 3000 Compact using the P649, A3MG management terminal or other Access 3000 input device capable of alpha messages

P318MTC (firmware DLT) – for use as a stand-alone alarm monitor to add alarm contacts to P318M or integrator

- A stand-alone device with 32 DLC inputs
- TAP messaging output providing paging and messages to devices with TAP input via modem or direct connection e.g. local or remote operation for alarms

This device is supplied with the P318SW, a terminal program and data file which contains the service parameters Vodapage, Page One, Cellnet, London Pager, Hutchinson, Eirpage and One 2 One (note: any of these suppliers may cease to provide these services).

P318MDE (firmware DEP and DEN) – for use with paging transmitter

This variant is a P318M encoder with output to a paging transmitter. It is similar to P318MDP but instead of connecting to a DECT system, it directly drives a paging transmitter.

* NOTE: the CS100 and CS600 are now obsolete.

Wireless server



Access-IP wireless server



Access integrator



P318MDC (firmware DCI) – for use with paging and P318MDP, DA and DS

- This is a DLC concentrator with 32 contacts for use on the Access 3000 bus
- It is equivalent to two traditional DLC concentrator Euro cards and can be mixed and matched with them
- The hardware includes a DLC sub bus connector allowing further DLCs to be added as equivalents to the traditional DLC interface Euro cards
- On the main A3K bus you can have both DLC concentrator and P318MDC units on DLC concentrator addresses
- You cannot use a P318MDC on a Eurocard DLC concentrators sub bus
- You cannot use a Eurocard DLC interface on a P318MDC sub bus
- Before selecting this option and any variants, please contact Multitone support for advice

P318M firmware	For use with	Functionality
DP (DDP or DDF)	CS100*, CS600* and wireless server 8000	<ul style="list-style-type: none"> ■ DDP firmware: alarm management via 32 on board DLCs - messaging out to DECT handsets ■ Various protocols input via serial port and messaging out to DECT handsets ■ Other paging hardware can be attached e.g. WAD card to provide messaging to GSM mobiles
DA	CS100*, CS600* and wireless server 8000	<ul style="list-style-type: none"> ■ Has the same functionality as the P318MDP with low level personal security and location ■ Using the long press function on CH7x handsets a team alarm may be sent with multiple messages giving details of the user, alarm message and location in relation to the nearest DECT base station at the time of call ■ Long press keys are also used to cancel or acknowledge an alarm ■ One DLC is dedicated as an output to sound alarms, operate lamps or other protection devices ■ A SMS licence is required for each location's last known RFP ■ Other paging hardware can be attached e.g. WAD card to provide messaging to GSM mobiles
DS (DDS)	CS100*, CS600* and wireless server 8000	<ul style="list-style-type: none"> ■ The P318M is used with a paging system as a slave which allows paging calls to be sent to DECT handsets ■ The DLC contacts have limited functionality
DE (DEN/DEP)	Access paging systems	<ul style="list-style-type: none"> ■ This variant is a P318M encoder with output to a paging transmitter ■ It is similar to P318MDP but instead of connecting to a DECT system, it directly drives a paging transmitter ■ Differences from P318MDP are detailed at the end of Appendix A in the installation guide
DC (DCI)	Access paging systems	<ul style="list-style-type: none"> ■ This is a DLC concentrator with 32 contacts for use on the Access 3000 bus ■ It is equivalent to two traditional DLC concentrator Euro cards and can be mixed and matched with them ■ The hardware includes a DLC sub bus connector allowing further DLCs to be added as equivalents to the traditional DLC interface Euro cards
TC	Stand alone alarm interface	<ul style="list-style-type: none"> ■ A stand-alone device, with 32 DLC inputs ■ TAP messaging output providing paging and messages to devices with TAP input via modem or direct connection e.g. local or remote operation for alarms
DI	CS600-IPL, wireless server 300, Access-IP, Access 6000 and OCX320	<ul style="list-style-type: none"> ■ P318MDI is only for use with Access Integrator-D ■ It is used to add modules of 32 contacts ■ Up to five modules may be added to a maximum of 176 alarm contacts ■ The alarm module is connected to the RS485 bus and the line is approximately 750 metres

* NOTE: the CS100 and CS600 are now obsolete

P318M	DP	TC	DS	DE	DC	DA	DI	Notes
TAP-in	✓		✓	✓		✓		<ul style="list-style-type: none"> ■ P318MDP, DA, DS and DE - used with DECT wireless servers CS100*, CS600* and wireless server 8000 ■ Also accepts TAP from EkoTek
TAP- out		✓						<ul style="list-style-type: none"> ■ P318MTC - stand-alone alarm module with TAP output via modem or direct link ■ External messaging host must support TAP
MEP-in	✓		✓	✓		✓		<ul style="list-style-type: none"> ■ P318MDP, DA, DS, and DE - used with DECT wireless servers CS100*, CS600* and wireless server 8000
ESPA-in	✓		✓	✓		✓		<ul style="list-style-type: none"> ■ P318MDP, DA, DS and DE - used with DECT wireless servers CS100*, CS600* and wireless server 8000 ■ Also accepts TAP from EkoTek
GENT-in	✓			✓		✓		<ul style="list-style-type: none"> ■ Fire alarm protocol - note: via FCPC card or via gent computer interface card on system bus
Austco-in	✓		✓	✓		✓		<ul style="list-style-type: none"> ■ Austco is a nursecall protocol
MSP-in	✓		✓	✓		✓		<ul style="list-style-type: none"> ■ MSP is very similar to Skope - used on some fire alarm and nursecall systems
RS485 link	✓		✓	✓	✓	✓	✓	<ul style="list-style-type: none"> ■ P318MDP, DA, DS, DC, DE and DI - used to connect other devices on the bus such as WAD cards and additional DLC (MDE)
MSF-out (serial)	✓		✓			✓		<ul style="list-style-type: none"> ■ Port A of the P318MDP, DA and DS are dedicated to the CS100 and CS600 messaging connection
DLCs	32	32	32	32	32	32	32	<ul style="list-style-type: none"> ■ Note: Not all contacts may be available on all variants - see datasheet for details

* NOTE: the CS100 and CS600 are now obsolete.

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