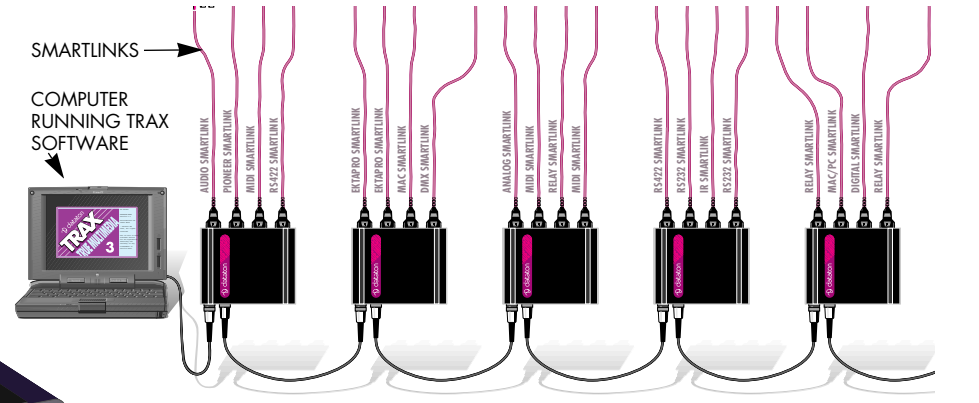


# SMART-PAX QC

Art. No. 3341



presentation programs and more.

SMART-PAX QC interprets the signals sent from Dataton TRAX® programming software running on a MacOS type of computer and converts them into the individual languages used by the various devices. Software device drivers loaded into the SMART-PAX QC handle the syntax of each device's language. Smartlink

cables then connect the SMART-PAX QC to the devices, ensuring that the proper kind of signal reaches the device. One SMART-PAX QC may control four different devices. In situations where more devices have to be controlled, several SMART-PAX QC units may be daisy-chained to achieve the required number of control channels, as shown above.

## FUNCTIONAL DESCRIPTION

### FRONT PANEL



**IN** Connects SMART-PAX QC to a previous control unit in a chain of multiple Dataton units (with SYSTEM CABLE), or directly to a computer running Dataton programming software. In this case, the relevant cable is included with the software and can be extended up to 20m with SYSTEM CABLE. SYSTEM CABLE is available in several standard lengths and as a DIY kit. When SMART-PAX QC is connected to TRANSPAX+, AIRLINK RECEIVER or MIC3+, the maximum cable length is 25m as SMART-PAX QC supplies power to the other unit. A pulsing yellow light from the LED adjacent to the **IN** connector indicates that correct data is being received from a previous device (on left, see picture on first page).



**OUT** Connects SMART-PAX QC to the next SMART-PAX QC unit in the chain via SYSTEM CABLE. A pulsing yellow light from the LED adjacent to the **OUT** connector indicates that correct data is being sent back to a previous device.



**TAPE** Connects SMART-PAX QC to a tape player using a phono cable. This means you can run the SMART-PAX QC from a Dataton SYNCODE cue track on tape rather than from computer. The SMART-PAX QC passes the cue track signal on to other units via the **OUT** connector and SYSTEM CABLE. The cable between the tape player and the SMART-PAX QC should be no longer than 2m. During playback, make sure that the tape player is connected to the first control unit in the chain. Never use both the **IN** and **TAPE** connectors at the same time; disconnect the computer when playing a cue signal through **TAPE**. A steady green light from the LED adjacent to the **TAPE** connector indicates that a correct SYNCODE cue track is being received. If the light starts flickering, try adjusting the playback level or, if the tape is old and worn, replace it with a new tape.



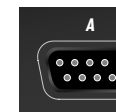
**ID** Shows the selected identity number for that specific SMART-PAX QC unit. During TRAX, the ID number setting is stored in the TRAX show file as well as in the actual SMART-PAX QC. This number remains the same until SMART-PAX QC is reconfigured in TRAX, regardless of the physical setting. Positions 1 through 15 represent the ID number assigned to the SMART-PAX QC. This is the number used when addressing devices under control from TRAX. The physical ID selector setting is sensed during system configuration. If the selector is turned afterwards, the internal ID number remains the same, but the selector's backlight turns off, thus indicating that the physical setting no longer corresponds to the programmed ID number. The position indicated by the Dataton logo is used for system diagnosis (see the TRAX handbook for details).



Power and status indicators. **POWER** indicates that the unit is powered. **LOCAL** indicates that power is supplied locally through a 12V DC ADAPTOR on the back of the unit; **REMOTE** that power is supplied by a SMART-PAX QC via **OUT**. **FAILURE** indicates a bad power supply or software problems, see the TRAX handbook.

## SMART-PAX QC

### REAR PANEL



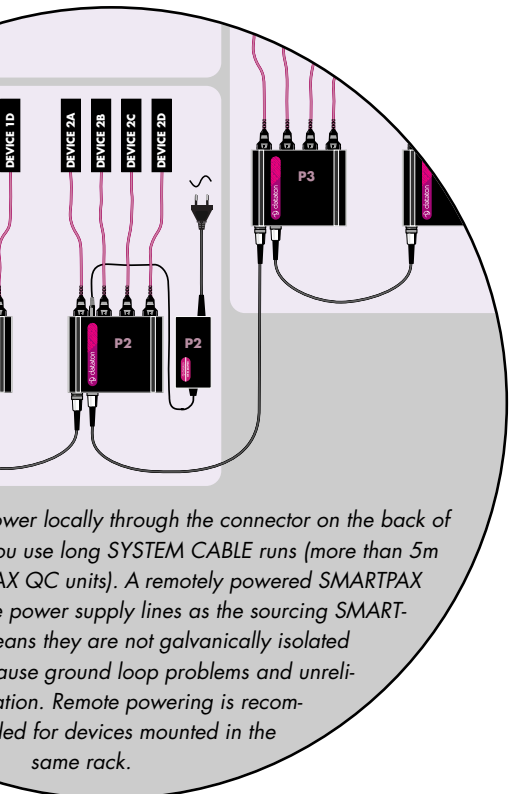
The devices to be controlled plug into the four device ports located on the back of the unit. One smartlink cable is used per port. The other end of the smartlink plugs into the device. Check the latest Dataton product catalogue or contact your Dataton dealer if you are not sure which smartlink you should use for a particular device. The letters A to D above each of the ports define, together with the ID selector setting on the front panel, the complete device address used by TRAX., eg, 3A, 7D.



**12V DC** Used to supply power to the SMART-PAX QC from a 12 DC ADAPTOR, article no: 3334. When power is supplied through this connector, the yellow **LOCAL** LED is lit on the front panel. Alternatively, the SMART-PAX QC may be powered by another SMART-PAX QC (or its predecessor SMART-PAX) connected to **OUT**. If this alternative way of powering the SMART-PAX QC is used, the **REMOTE** LED on the front panel is lit.

### GETTING STARTED

Connect the SMART-PAX QC to a computer running Dataton programming software (see previous sections on **IN**, **OUT** and **TAPE**) or as part of a chain of control units linked by SYSTEM CABLE. Plug the appropriate smartlink cables to the



SMART-PAX QC ports and the devices. Plug in the power supply to the SMART-PAX QC. Further configuration takes place in TRAX run on a MacOS based computer, see the TRAX handbook.

## SMART-PAX QC

### DEVICE DRIVERS

To operate, SMART-PAX QC has to be configured from TRAX, ie, the appropriate software device drivers have to be downloaded into the SMART-PAX QC. They will remain there until you reconfigure it from TRAX, even if the power is switched off. The TRAX program includes several hundred device drivers covering control of most contemporary multimedia devices related to audio, video, slides, lighting, computer presentation, etc.

If there is no standard driver available for a particular device, you can make your own driver. Please refer to your TRAX handbook for more information on writing your own ASCII drivers and downloading drivers from TRAX.

An updated list of which devices can be controlled by SMART-PAX QC and which smartlink cables to use is available on Dataton's web site:

<http://www.dataton.com>

### IMPORTANT

SMART-PAX QC is fully upward compatible with its predecessor, SMART-PAX. It can use all the same device drivers and smartlink cables. Both kinds of units may be used in the same rig. TRAX, version 3.0.4 or later is required.

### TECHNICAL SPECIFICATIONS

Size: 157 × 125 × 30 mm  
(6.2" × 4.9" × 1.2")

Weight: 400 g

Power consumption: 12V DC ±10%  
150mA maximum (stand alone).

Power supply connector: According to EIAJ RC5320 class IV.

Internal memory for storing device specific drivers: 32 kB, nonvolatile.

Maximum number of SMART-PAX units connected to one TRAX system bus: 14

Maximum length of SYSTEM CABLE between SMART-PAX units: 100m (provided that power is supplied locally).

System bus: DATATON SMART-CODE™, a proprietary protocol for bidirectional communication between SMART-PAX units and a host computer, using optically isolated receivers with active termination.

Device ports at rear: 9-pin D-sub male connector, see connection diagram below. Electrically compatible with RS-232, though specs differ slightly.

Device port protocol: downloaded from TRAX. More than 400 protocols are available.

Maximum serial data communication speed: 230.4 kB/s.

Maximum current source to connected devices: (pin 8-9) 0.5A on one port, 1A totally on all.

