Sequential Mains Distribution Unit with Serial Control

SMS 112P

- SEQUENTIAL SWITCH ON AND SWITCH OFF WITH VARIABLE ORDER AND INTER RELAY TIMING
- PROGRAMMABLE LOAD SHEDDING CAPABILITY OVER TIME
- SERIAL CONTROL USING EXISTING AUTOMATION CONTROL SYSTEMS OR PROPRIETARY CONTROL SOFTWARE
- INDIVIDUAL CONTROL OF EACH OUTPUT
- REMOTE MONITORING OF OUTPUT STATUS
- 20A POWERCON INPUT

Bryant Broadcast & Data Communications.

Building on the proven technology of their sequential mains unit design, Bryant Broadcast & Data Communications have expanded the range with this serially controllable version.

The units are supplied configured as a standard sequential mains unit with GPI start and cascade out connections. The inter relay timing is set at 500ms. However, the unit can be re-programmed, using the supplied Windows™ software, to change the sequence on order, the sequence off order and the inter relay timings of both sequence on and off independently. Because of the programmable nature of these units, the sequence off can alternatively be configured with sophisticated load shedding capabilities, triggered by a UPS power failure relay contact for instance, by setting certain outputs to turn off immediately followed by other outputs over time as any power loss persists. As soon as the main power comes back, the unit will re-sequence the outputs back on. Additionally the cascade out contact can be reconfigured as an emergency dump input, which could be connected to a low battery relay contact on the UPS.

Where more than one unit is required, in an MCR for instance, they can be 'daisy-chained' together using the RS 422/485 multi-drop interface, up to a maximum of 255 units. These can be controlled using Bryant Broadcast's sophisticated WinPower control and monitoring software. Alternatively, users can interface them to their existing Automation Control Software, BNCS/Colledia™, Pharos Pilot/Exception etc. by using the appropriate drivers. The full serial protocol is available for developers.

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1U, 12 IEC output sequential mains distribution unit with comprehensive programming capabilities via RS 422/485 multidrop interface. Suitable for use with existing automation control systems, or Bryant Broadcast's proprietary multi-unit control/monitoring software.

OUTPUT SWITCHING	Heavy-duty 16-amp power relay per output for reliability. (Semiconductor switches not used due to noise imposed on the mains).
INPUT CONNECTOR	20 amp Neutrik PowerCon inlet.
OUTPUT CONNECTORS	12, 10 amp IEC outlets (fused at 3.15A).
FRONT PANEL INDICATORS	LED indicators show green for power present at output, red for fuse blown, off for output off and flashing green for power present when it shouldn't be. (We only know this last one works by feeding mains back into an output!)
SEQUENCE ON/OFF ORDER	The sequence that the outputs turn on an off is completely configurable together with the GPI input and output.
INTER RELAY TIMING	The time delay between relays can be set to between 0.1s to 6300s (1Hr 45 mins) and is independent for power on and power off sequences.
LOAD SHED	Outputs can be set to turn off, turn off with delay or not turn off at all. This can be triggered by the GPI input or from the control software. This allows sophisticated load shedding capability where more units can be turned off the longer the main power is unavailable whilst ensuring that critical equipment remains powered as long as possible.
LOAD DUMP	An additional level of sequence off is also available when the GPI output is configured to be an input. This can be set to provide different timings to the load shed option for use where you are really in the proverbials.
OPERATING TEMPERATURE	+5ºC to +40ºC
DIMENSIONS & WEIGHT	Height: 1U, width: 19 inch rack mount, depth: 260mm (385mm to tie-bar), weight: 3Kg.
WINPOWER SOFTWARE	Full control and monitoring of units is possible using WinPower Lite for one unit (supplied) or WinPower Pro for up to 255 units (Cost option) .
AUTO DISCOVERY	Units are supplied with the multi-drop address set to zero. The unit software has a designed in auto discovery feature to make installation of new units a doddle.

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