

24 Classic Setup

05/13/98

24 Classic series

All firmware versions

Motherboard Jumpers

Jumper	Function	Default
JU1	Remove if external alarm drivers will drive relays with a coil voltage greater than 12 VDC. With the jumper removed, the drivers can switch up to 100 milliamps at 32 volts DC, but the user must install a transient protection diode across any external relay coil to avoid damage to the relay drivers.	installed
JU2	Remove if relay drivers 5-8 will drive external relays with a coil voltage greater than 12 VDC. With the jumper removed, the drivers can switch up to 100 milliamps at 32 volts DC, but the user must install a transient protection diode across any external relay coil to avoid damage to the relay drivers.	installed
JU3	Remove if relay drivers 9-16 will drive external relays with a coil voltage greater than 12 VDC. With the jumper removed, the drivers can switch up to 100 milliamps at 32 volts DC, but the user must install a transient protection diode across any external relay coil to avoid damage to the relay drivers.	installed
JU4	Move this jumper to the position nearest the front panel to initialize the 24. Apply power and the 24 will begin its internal diagnostics, displaying the appropriate diagnostic codes on the front panel LEDs. After the ProTek completes its self-diagnostic routine, the Alarm LED should go out. Return JU4 to its original position. Failure to clear memory after service or prior to programming can cause operational problems.	rear
JU5	Real-time clock adjustment	rear
JU6	reserved for factory use	rear
JU7	reserved for factory use	rear
JU8	reserved for factory use	rear
JU9	Short ring detection. In the forward position the ProTek will respond to shorter than standard duration ring signal.	rear
JU10	reserved for factory use	rear
JU11	reserved for factory use	rear
JU11	Opto-isolation for mother board digital input 6 (Site interface input 0D6)	forward
JU12	Opto-isolation for mother board digital input 7 (Site interface input 0D7)	forward
PA	Cut only if second SIO chip is installed	Loop installed

Motherboard Dip switches

DSW1 and DSW2 set the baud rate for the Local VDT port. Set to match your local VDT. *Default: 9600 baud.*

DSW1	DSW2	VDT Baud Rate
OFF	OFF	9600
ON	OFF	2400
OFF	ON	1200
ON	ON	300

DSW3	Modem Baud Rate
OFF	1200
ON	300

DSW4 and DSW5 set the number of rings the 24 has to see before answering inbound calls. *Default: one ring.*

DSW4	DSW5	Rings
OFF	OFF	1
ON	OFF	3
OFF	ON	5
ON	ON	7

DSW6 is not used and should be left in the OFF position. *Default: off*

DSW7 and DSW8 set the baud rate for the aux VDT port. *Default: 9600 baud.*

DSW7	DSW8	Baud Rate
OFF	OFF	9600
ON	OFF	2400
OFF	ON	1200
ON	ON	300

Mother board adjustments

Potentiometer	Function
C 1 6	Realtime clock crystal adjustment
R 0 7	Beep-tone detect frequency adjustment
R 2 9	2.56V reference adjustment
R 7 6	Gain adjustment for site audio input
R 7 7	Gain adjustment for site audio output

Station Interface Module Adjustments and jumpers

Potentiometer	Function
TP1	Testpoint for audio input 1
TP2	Testpoint for audio input 2
TP3	Testpoint for audio input 3
TP4	Testpoint for audio input 4

Potentiometer	Function
RX1	Gain for audio input 1
RX2	Gain for audio input 2
RX3	Gain for audio input 3
RX4	Gain for audio input 4

Potentiometer	Function
C16	Realtime clock crystal adjustment
R07	Beep-tone detect frequency adjustment
R29	2.56V reference adjustment
R76	Gain adjustment for site audio input
R77	Gain adjustment for site audio output

Jumper	Function	Default
SW1	Scaling for analog input 1	10V
SW2	Scaling for analog input 2	10V
SW3	Scaling for analog input 3	10V
SW4	Scaling for analog input 4	10V
SW5	Scaling for analog input 5	10V
SW6	Scaling for analog input 6	10V
SW7	Scaling for analog input 7	10V
SW8	Scaling for analog input 8	10V
JU2	Secondary interconnect points for all SIM inputs. Connect to JU2, JU4, JU5, JU6, and JU 9 as appropriate for special applications	none
JU3	Interconnect point for unused SIM cable	none
JU4	Interconnect point for unused SIM cable	none
JU5	Interconnect point for unused SIM cable	none
JU6	Interconnect point for unused SIM cable	none
JU7	Enables latch on digital input 5 for detection of active level ³ 20ns.	rear
JU8	Enables latch on digital input 5 for detection of active level ³ 20ns.	rear
JU9	Interconnect point for access to SIM ±5VDC, ±12VDC supplies.	none