



features

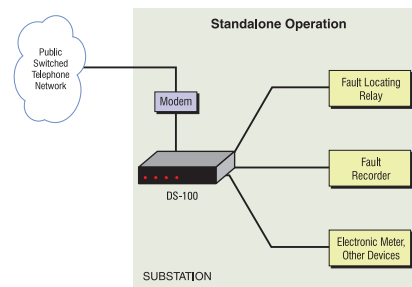
- Supports baud rates between 300 - 38,400 bps.
- Remotely programmable, password protected security.
- Major alarm activation triggered by power failure, blown fuse, emergency interrupt, prevent or internal watchdog timer activation.
- Individually addressable and configurable User Ports.
- Emergency interrupt override.
- Units may be daisy-chained together to expand the number of available ports to 64 ports.
- 19" or 23" rack mount or wall mount.
- 20° to +60° C operating temperature range.

benefits

- Can individually communicate with multiple IEDs from a single originating call.
- Reduce operating costs by utilizing a single modem instead of a separate modem for each IED.
- Simplifies protocol conversion installation by allowing users to group different manufacturers' IEDs behind different DS-100s.
- A building block approach enables users to use the unit by itself or with other Teltone products.
- No concern for AC power dropouts, when DS-100 is DC powered. Also provides a 12VDC output to power external modems.
- One stocking unit required for 48VDC, 125VDC, and 120VAC operation.

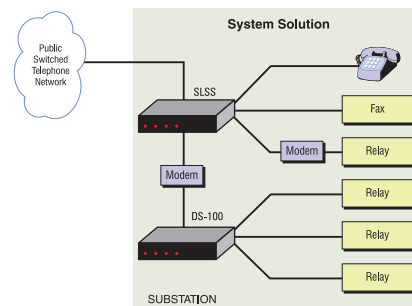
The Teltone Infolink DS-100 Series Electronic Data Switch allows users to communicate with up to eight intelligent electronic devices (IEDs) through a single RS-232 serial connection. The DS-100 is designed to be operated by itself, or in conjunc-

Standalone Operation



In this application, the DS-100 allows remote data communication with multiple devices at a utility substation. This eliminates the cost of dedicated phone lines to each device. Example endpoints include fault locating relay, fault recorder, and electronic meter.

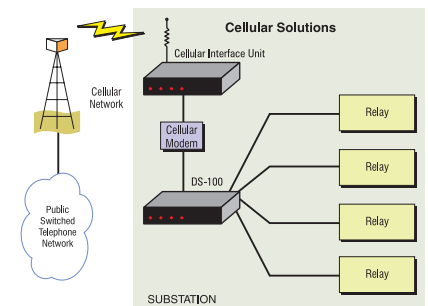
Voice & Data System



In this application, the DS-100 is used in conjunction with an SLSS (Substation Line Sharing Switch) at a utility substation. The DS-100 provides port sharing for data devices, while the SLSS provides line sharing for telephony devices. In this mixed voice and data environment, multiple devices of each flavor can communicate over a single telephone line with the help of the SLSS and DS-100.

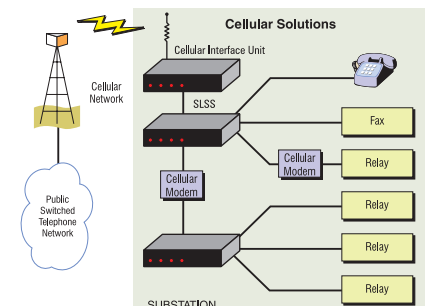
tion with the Teltone family of Substation Line Sharing Switches (SLSS). It has been specifically engineered to withstand the rigors of substation use and other hazardous environments.

Standalone Operation over Cellular



In this application, the DS-100 allows remote data communication with multiple devices at a utility substation, via cellular transmission. This eliminates the cost of dedicated land lines to each device. Example endpoints include fault locating relay, fault recorder, and electronic meter.

Voice & Data System over Cellular



In this application, the DS-100 is used in conjunction with Substation Line Sharing Switch at a utility substation. The DS-100 provides port sharing for data devices, while the SLSS provides line sharing for telephony devices. In this mixed voice and data environment, multiple devices of each flavor can communicate over a single cellular telephone line with the help of the SLSS and DS-100.

specifications

| | | | |
|--|---|---|----------------------------------|
| Electrical | | Watchdog Time-out | under 250 mS |
| Power Requirements | | Mechanical | |
| DC Voltage | 42-150 VDC | Dimensions | |
| AC Voltage | (60 Hz) 90-120 VAC | Height | 2.40 inches |
| DC Current | 650 mA max @ 42 VDC | Length | 9.75 inches |
| AC Current | 270 mA max | Width | 17.25 inches |
| Average Current Draw | | 19" or 23" rack or wall mounted and choice of flush or mid mount. Two units will mount into 3 standard rack heights. | |
| @ 42 VDC | 500 mA | Unit Weight | 6 pounds |
| @ 150 VDC | 150 mA | Housing | Rolled aluminum, case at ground. |
| @ 90 VAC | 210 mA | Environmental | |
| @ 120 VAC | 170 mA | Operating Temperature | -20°C to +60°C |
| Fuse Requirements | 2 A, 250 V, Time Delay, Type 3AG | Storage Temperature | -30°C to +70°C (3 day maximum) |
| Alarm Contacts | 125 VDC @ ¼ Amp | Maximum Humidity | 95% @ 40°C (non-condensing) |
| Emergency Interrupt | 40 to 140 VRMS AC or DC voltage applied for at least 1 second | Electrostatic Discharge Immunity | IEC801.2 level 4 ESD |
| DC Power Out | +12 VDC, -12 VDC | Surge Withstand Capability | ANSI/IEEE C37.901-1989 |
| maximum current draw | + 12 VDC = 1.25 Amp -12 VDC = 0.25 Amp | Vibration and Shock | 47 CFR 68.302 |
| Serial Ports | | Regulatory | |
| Interface RS-232 | | FCC Part 15 Class A Complies | |
| Modem Port DTE/DE-9 male connector | | Product Reliability | |
| User Ports DCE/DE-9 female connector | | Minimum MTBF (10) years or (87,660 hours) | |
| Local Maintenance Port DCE/DE-9 female connector | | Warranty Info | |
| All DTE and DCE connectors at potential. | | The DS-100 unit is warranted for a period of 90 days. The warranty expiration date is evidenced by a label on each unit that states "Warranty expires on this date: Month-Day-Year" | |
| Supported RS-232 Signals | | | |
| Pin Number | Signal Name: | Signal To: | |
| 1 DCD | | DTE | |
| 2 RXD | | DTE | |
| 3 TXD | | DCE | |
| 4 DTR | | DCE | |
| 5 Ground | | ---- | |
| 6 DSR | | DTE | |
| 7 RTS | | DCE | |
| 8 CTS | | DTE | |
| 9 RI | | DTE* | |
| | * Not on Local Maintenance Port | | |
| | Watchdog Timer/Low Supply Voltage Detector | | |

For the latest product info, complete specs, downloads and more, visit www.teltone.com

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