

# Keltron VS4095/5

## Two-Color Alarm Printer



Peripheral Devices

### General

The Keltron VS4095/5 two-color (red/black), 40 column, 24 VDC printer is designed for use with ONYX series fire alarm control panels and network control annunciators. This reliable two-color impact printer meets all UL Fire and Security requirements including the ability to print 50 individual alarm messages within a 90-second time interval.

### Features

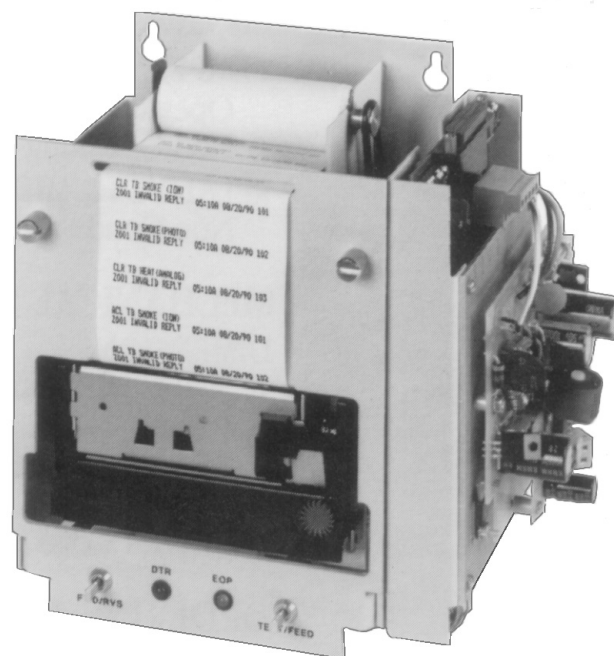
- Listed to UL 864, 9th Edition
- Meets all UL Fire and Security requirements including print speed — 50 messages in 90 seconds.
- Three mounting options.
- Red/black print.
- Built-in paper take-up reel.
- 24 VDC operation. Operates directly off the power of the control panel. Therefore, the 90 Series printer will share the battery backup of the control panel and continue to operate in the unlikely event that A.C. mains are lost.
- Operates over a wide voltage range and continues to operate during brownouts, surges, or low power circumstances.
- Crisp, clear black/red hard copy is provided in a compact 40-column format. Two 40-column lines are equivalent to one 80-column alarm message. Red printing is triggered via a control command or by message context. Double-height characters can be integrated on the same line with normal characters.
- The built-in paper take-up reel provides convenient storage of printed records. Records can be reviewed at any time by depressing a switch on the front panel, and paper rewound by flipping the switch in the opposite direction.
- Mounts directly to CAB-4 cabinet with P40-KITB mounting assemblies.
- Time and date stamp.
- Manual test switch.
- Paper feed switch.
- End of paper (EOP) indicator.
- Data Terminal ready (DTR) indicates the printer is ready to receive data.

### INTERNALLY POWERED TIME/DATE STAMP

In the unlikely event that the alarm system is shut down completely (including standby power), the optional time/date stamp will print the time and date when the system shuts down and when it returns to service. This information may be extremely valuable to the system integrator.

### WALL-MOUNTED SECURITY CABINET

The optional wall-mounted security cabinet provides viewing windows for 12 message lines, plus printer and paper status LEDs. This locking cabinet utilizes a key and secures the printer against unauthorized access and protects the recorded data from possible tampering. This attractive cabinet can be used in conjunction with virtually any wall-mounted alarm system.



### CAB-4 MOUNTING, P40-KITB

The VS4095/5 may be mounted directly to the CAB-4 cabinet with the P40-KITB mounting assembly. The P40-KITB includes a mounting chassis for the VS4095/5 and a hinged dress panel. Although the P40-KITB utilizes an entire row of the CAB-4, it also adds two ACS Series Annunciator positions directly adjacent to the printer. ABM Series blank modules should be ordered if one or both of these positions are not utilized. The chassis also has two "low" CHS style chassis positions for mounting modules such as the ACM-8R.

### RACK MOUNTING OPTION

The VS4095/5 can also be mounted on a standard 19" (48.260 cm) rack panel, which is 12.25" (31.115 cm) high and 4.75" (12.065 cm) deep.

### EASY RIBBON/PAPER REPLACEMENT

The two-color ribbon cartridge pops in and out in seconds for easy replacement. Standard 3" x 3" (7.62 x 7.62 cm) diameter plain paper rolls are also easily changed when required.

## Specifications

### CHARACTER SET:

- 96 upper and lower case ASCII characters.
- 256 characters available optionally. Consult factory.
- Print buffer: 8,192 characters.
- Print method: Dot-matrix impact.
- Print columns: 40.
- Print speed: 2.2 lines/second (nominal) @ 24 VDC +10%/-20%.
- Reliability: 1.5 million lines MTBF.
- Character size: 1.3 mm wide; 2.9 mm\* high; 210 dots/line.

**NOTE:** Extended character height: 5.8 mm

- Paper feed: Unidirectional (forward) pressure roller. Fast paper feed = 9 lines/second.
- Paper: Thickness 0.0027" (0.006858 cm), diameter 3.00" (7.62 cm), width 3.00" (7.62 cm).
- Ribbon: Snap-in cassette, red/black or black.

### STANDARD INTERFACE

EIA-232 with READY/BUSY protocols, 20 mA passive opto/isolated current loop.

Connector: DB-25S, 25 pin, D female type (not included).

### POWER

**Power consumption:** 24 VDC +10%/-20%. Exceeds UL requirements. 0.1 A standby /1.0 A printing.

**Normal Standby:** 0.030 amps

**Maximum current with all output relays activated:** 158 mA.

**Power supply:** Use a regulated, power-limited compatible power supply UL/ULC-listed for Fire Protective Signaling use.

Environmental

**Temperature range:** Operating 32°F to 122°F (0°C to 50°C); non-operating -13°F to 158°F (-25°C to 70°C).

**Relative humidity:** Non-condensing 20% to 90%.

### MECHANICAL DIMENSIONS

	Width	Height	Depth
<b>Printer:</b>	8.750" (22.25 cm)	9.50" (24.130 cm)	5.50" (13.970 cm)
<b>Keltron Security Cabinet:</b>			
Rear Box	13.0" (33.02 cm)	13.25" (33.655 cm)	4.75" (12.65 cm)
With Cover	14.434" (36.662 cm)	14.50" (36.830 cm)	6.0" (15.24 cm)

### Product Line Information

- **VS4095/5 90 Series Printer:** 40 column, EIA-232, 24 VDC, two-color, without security cabinet. Order VS4095/5 directly from Keltron.
- **90106 DB-25 & Connector:** The VS4095/5 printer requires a DB-25 connector (not included) and a cable for connection to the serial port. A 90106 may be used, but the connector shell may interfere with the above chassis and should not be used. Order 90106 from NOTIFIER.
- **31D1243:** Internally Powered Time/Date Stamp. Order 31D1243 directly from Keltron.
- **ABM-1:** Annunciator blank module. Covers unused annunciator positions. Order ABM-1 from NOTIFIER.

### MOUNTING CABINETS

- **VSENCGRY:** Gray Wall-Mount Security Cabinet. Includes keylock and key. Order directly from Keltron.
- **VSENCRED:** Red Wall-Mount Security Cabinet. Can include the keylock and key upon request. Order directly from Keltron.

- **P40-KITB:** CAB-4 series mounting kit, includes chassis, hinged dress plate, two BMP-1 blank plates, and mounting hardware. Order P40-KITB from NOTIFIER.

### Agency Listings and Approvals

In some cases, certain modules may not be listed by certain approval agencies, or listing may be in progress. *Consult factory for latest listing status.*

- **UL/ULC Listed:** S3081
- **MEA:** 289-91-E Vol. 4, 447-99-E
- **FDNY:** COA#6058 (NFS2-3030)
- **CSFM:** 7165-0028:0214, 7165-0028:0224

### KELTRON ORDERING INFORMATION

The VS4095/5 may be ordered directly from Keltron at the following address:

Keltron Corporation  
225 Crescent Street  
Waltham, MA 02453-3487  
(781) 894-8710 (phone)  
(781) 899-9652 (fax)  
www.keltroncorp.com  
keltroncorp@aol.com

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