

## Datasheet for VDV II

### Test Ports (all versions):

- 6 Pin RJ12 socket for RJ11, RJ12, RJ14 or RJ25 Voice cable testing
- 75  $\Omega$  F-Coax socket for Video cable testing
- 8 Pin Shielded RJ45 socket for Data cable testing

|                 |                      |                                                              |
|-----------------|----------------------|--------------------------------------------------------------|
| <b>Display:</b> | VDV II:              | 2.7" Custom Monochrome LCD                                   |
|                 | VDV II Plus and Pro: | 2.9" Custom Monochrome LCD Backlight with adjustable timeout |

### Wiremap (all versions):

- Pins 1-6 for Voice
  - Shield + pin 1 for Video
  - Shield + pins 1 – 8 for Data
1. Wiring detected (using a Remote Unit)
    - Correct connections
    - Miswire
    - Crossover (uplink cable) – does not report fail
    - Open circuit by pair
    - Open circuit shield
    - Short circuit by pin
    - Short to shield
    - Split pairs (minimum length: 0.5m of CAT5 2, 3 or 4 pair cable)
  2. Maximum cable length 300m of 26AWG single pair

### Length Measurement:

|                                    | VDV II | VDV II Plus                      | VDV II Pro                 |
|------------------------------------|--------|----------------------------------|----------------------------|
| Length to open circuit pair        | No     | Yes                              | Yes                        |
| Length to short circuit pair       | No     | No                               | Yes                        |
| Length units                       | -      | m / ft                           | m / ft                     |
| Capacitance per unit length range  | -      | 30 to 130 pF/m<br>10 to 40 pF/ft | -                          |
| NVP range                          | -      | -                                | 59% to 89%                 |
| Minimum calibration cable length   | -      | 15 m<br>50 ft                    | 15 m<br>50 ft              |
| Accuracy (correct pF/m or NVP set) | -      | $\pm 5\% \pm 0.5m / 1.5ft$       | $\pm 5\% \pm 0.5m / 1.5ft$ |
| Resolution                         | -      | 0.1m / 0.5 ft                    | 0.1m / 0.5 ft              |
| Length range                       | -      | 0.3 – 450m<br>1 – 1476ft         | 0.3 – 450m<br>1 – 1476ft   |

**Voltage Detection and Measurement:**

|                                         | VDV II                | VDV II Plus           | VDV II Pro       |
|-----------------------------------------|-----------------------|-----------------------|------------------|
| Maximum withstand voltage (Test Unit)   | 60V (for 10 secs max) | 60V (for 10 secs max) | 60V (continuous) |
| Maximum withstand voltage (Termination) | 10V                   | 10V                   | 10V              |
| Voltage warning                         | >-2V                  | >-2V                  | >-2V             |
| Voltage measurement                     | No                    | No                    | Yes              |
| Accuracy                                | -                     | -                     | ± 1V             |
| Resolution                              | -                     | -                     | ± 1V             |

**Service Detection (VDV PRO only)**

| Port  | Service | Voltage | Pins                  |
|-------|---------|---------|-----------------------|
| VOICE | PBX     | >30v.   | 3-4 or 2-5            |
| DATA  | PoE     | >30v    | 1/2 - 3/6 or 4/5 -7/8 |
|       | PBX     | >30v.   | 4-5                   |
|       | ISDN    | >30v.   | 3/6 - 4/5             |

**Tone Generator:**

|                      | VDV II                                 | VDV II Plus                            | VDV II Pro                             |
|----------------------|----------------------------------------|----------------------------------------|----------------------------------------|
| Number of tones      | 4                                      | 8                                      | 8                                      |
| Applied to           | All pins<br>Any single pin<br>Any pair | All pins<br>Any single pin<br>Any pair | All pins<br>Any single pin<br>Any pair |
| Level (Peak to Peak) | -5V                                    | -5V                                    | -5V                                    |

**Ethernet Operation**

|                            | VDV II | VDV II Plus | VDV II Pro                                             |
|----------------------------|--------|-------------|--------------------------------------------------------|
| Ethernet Device Detection  | Yes    | Yes         | Yes                                                    |
| Hub Blink Function         | Yes    | Yes         | Yes                                                    |
| Ethernet Service Detection | No     | No          | Line Rate (10Mb/s, 100Mb/s, 1Gb/s)<br>Full/Half Duplex |

**Battery (all versions):** Battery type - 9V Alkaline. Autonomy (backlight off) - 20hours minimum continuous wiremap operation.

**Weight and Dimensions:**

|                                                      | VDV II           | VDV II Plus       | VDV II Pro        |
|------------------------------------------------------|------------------|-------------------|-------------------|
| Dimensions (including Dual Port Remote Unit)         | 160 x 76 x 36 mm | 160 x 76 x 36 mm  | 160 x 76 x 36 mm  |
| Weight (including Dual Port Remote Unit and battery) | 0.26 Kg          | 0.26 Kg           | 0.26 Kg           |
| Shipping dimensions                                  | 213 x 84 x 44 mm | 278 x 195 x 59 mm | 278 x 195 x 59 mm |
| Shipping weight                                      | 0.3 Kg           | 0.8 Kg            | 0.8 Kg            |

**Environmental and Approvals:**

Temperature:           Operating: 0°C to 50°C  
                              Storage: -20°C to 70°C

Relative Humidity:    Min: 5%  
                              Max: 90% non-condensing

Protection:           IP20

EMC:                   EN 55022:2006 / A1:2007  
                              EN55024:1998 / A1:2001 / A2:2003

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