

MAKERS OF WIDE RANGE OF OSCILLOSCOPES, D. V. M. S. D. P. M. S. SIGNAL GENERATORS, F. E. T. INPUT MULTIMETERS, POWER SUPPLIES, AND OTHER CUSTOM MADE ELECTRONIC INSTRUMENTS.



ISO 9001 : 2000

## Ø Oscilloscopes:

It's an electronic measuring instrument used for measuring electrical signals viz. *voltage, current & frequency (wavelength of a signal) etc.*

### **Application:**

1. For on-field testing.
2. On-board circuit testing.
3. In electrical & electronic industry for parameters testing.
4. In educational institutions.
5. In railways for rail continuity examination over a long distance or to detect cracks that are developed in rails.

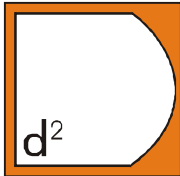
## Ø DS 414 DUAL TRACE OSCILLOSCOPE

### **Salient Features:**

1. 20MHz at 5mV, for each channel.
2. *X-Y operation* at 5 mV sensitivity.
3. 200 mV *peak-to-peak* calibrator.
4. Dual triggering, component testing facility & trace rotation.



DS 414



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 SCOPES. ■ ■ ■ D. V. M. S.  
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<b>VERTICAL DEFLECTION (Y- AXIS)</b>	
<b>OPERATING MODE</b>	MONO (CH <sub>1</sub> ), DUAL (ALT OR CHOP), ADD & X-Y.
<b>BAND WIDTH</b>	DC TO 20 MHz (-3DB)
<b>RISE TIME</b>	18 nSECS
<b>ACCURACY</b>	3% IN VERTICAL DEFLECTION SYSTEM
<b>DEFLECTION COEFFICIENT</b>	5 mV/DIV TO 20 V/DIV IN 1,2,4 SEQUENCE
<b>INPUT IMPEDANCE</b>	1 MEG OHM/40 PF APPROX
<b>INPUT COUPLING</b>	AC/DC/GROUND
<b>MAX INPUT VOLTAGE</b>	400 V (DC + AC PEAK)
<b>TIME BASE</b>	
<b>TIME COEFFICIENT</b>	0.2 SEC./DIV. TO 0.2 SEC/DIV IN 1,2,5 SEQUENCE IN 19 CALIBRATED STEPS WITH 5% ACCURACY.
<b>SWEEP MAGNIFICATION</b>	X5, EXTENDS FASTEST SWEEP TO 40 nSEC
<b>TRIGGERING SYSTEM</b>	
<b>SOURCE</b>	INTERNAL FROM CH <sub>1</sub> OR DUAL EXTERNAL
<b>SLOPE</b>	POSITIVE AND NEGATIVE
<b>MODE</b>	AUTO & NORMAL
<b>SENSITIVITY</b>	1 DIV. FROM 5 Hz TO 20 Hz
<b>EXTERNAL</b>	3V PEAK TO PEAK 5 Hz TO 20 Hz
<b>HORIZONTAL DEFLECTION (X- AXIS)</b>	
	CH <sub>2</sub> ACTS AS X- AMPLIFIER IN X-Y MODE
<b>MAX. INPUT VOLTAGE</b>	400V (DC PLUS AS PEAK)
<b>BAND WIDTH</b>	5Hz TO 1MHz (-3DB)
<b>DEFLECTION COEFFICIENT</b>	5m V/DIV TO 20 DIV IN 1,2,4 SEQUENCE IN 12 CALIBRATED STEPS WITH 3% ACCURACY
<b>INPUT IMPEDANCE</b>	1MEG. / 40 PF.
<b>GENERAL INFORMATION</b>	
<b>COMPONENT TEST FACILITY</b>	6.8V (R.M.S.) MAX. CURRENT - 40 mA.
<b>CATHODE RAY TUBE (CRT)</b>	13 CM ROUND CRT WITH P 31 PHOSPHER.
<b>ACCELERATING POTENTIAL</b>	2 KV APPROX.
<b>BUILT IN CALIBRATOR</b>	200mV PEAK TO PEAK SQUARE WAVE SIGNALS.
<b>GRATICULE</b>	10 DIV. x 8 DIV. (1 DIV=1CM.)
<b>TRACE ROTATION</b>	TRACE ROTATION COIL PROVIDED
<b>POWER</b>	230V, 50Hz, 50VA APPROX.
<b>WEIGHT</b>	11KG. APPROX.
<b>DIMENSION (H X W X D)</b>	175MM X 302 MM X 420 MM
<b>NOTE: WE RESERVE THE RIGHT TO ALTER THE SPECIFICATIONS FOR IMPROVEMENT OF THE PRODUCT.</b>	