



## Industrial Television Synchronizing Pulse Generator Type V3610



9034

THIS unit is designed for use in industrial installations needing an accurately interlaced picture. It provides separate outputs of line drive, field drive, blanking and mixed synchronizing pulses at an amplitude of 2 volts p-p into an impedance of 75 ohms. The outputs are available on 405, 525 and 625-line systems, but no equalizing pulses are provided.

The outputs may be locked to the local mains supply or to an external source of similar frequency. Alternatively a twice-line frequency crystal oscillator may be fitted, in which case the locking circuits are not used.

The unit is transistorized and housed in a sealed case of robust design which is both dustproof and moistureproof.

The dimensions of the unit are such that two (in a mounting tray) can be accommodated side-by-side in a 19-inch (48 cm) rack and occupy only 5½ in. (13.3 cm) of rack space vertically. All connectors are carried on the front panel and recessed for mechanical protection. The master oscillator frequency control is accessible from above

when the unit is partially withdrawn from the case.

The number of lines per field is established by a series of binary-counter dividers. Standards change is achieved by substitution of certain components and alteration of soldered links.

A control is provided to set the free-running frequency of the master oscillator either to the centre of the mains lock pull-in range or to the nominal frequency when no locking reference is available.

Monitoring points are provided to check the operation of the unit.

Outputs of line drive, field drive, blanking and mixed sync. are available at four coaxial sockets.

The unit is complete with its own stabilized power supply.

### Data Summary

#### INPUTS:

**Mains:** 100–125 V or 200–250 V, 50–60 c/s, 8.5 VA. Locking tone (if used) 6.3 V r.m.s., 50 or 60 c/s in 3.3 k $\Omega$ .

#### Outputs:

Line drive 2 V in 75  $\Omega$   
 Field drive 2 V in 75  $\Omega$   
 Blanking 2 V in 75  $\Omega$   
 Mixed sync. 2 V in 75  $\Omega$   
 Suitable for 405 or 625 lines, 50 fields/sec.  
 2 : 1 interlace, or 525 lines, 60 fields/sec.  
 2 : 1 interlace. No equalizing pulses, otherwise standard waveform. Rise time of leading edge of line frequency pulses not greater than 0.25  $\mu$  sec.

**Control:** Master oscillator frequency.

#### Dimensions:

| Height  | Width   | Depth   | Weight  |
|---------|---------|---------|---------|
| 4 in.   | 8 in.   | 10 in.  | 8 lb    |
| (10 cm) | (20 cm) | (25 cm) | (3½ kg) |

### Marconi

The Marconi Company Limited  
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