CT-2 and CT-3

Headend Channel Tagger

- The Solution to False Alarms
- Isolates Leaks in Over-Built Systems
- Compatible with the Super Plus, Seeker, and Seeker Lite[2]

Overview

When several cable systems operate in the same area, it is often difficult to determine which system is the source of a detected leak. The CT-2/CT-3™ solves this problem by tagging the system video carrier with low frequency modulation. Used as a system with Trilithic's leakage receivers, (including the Super Plus™, Seeker™, and Seeker Lite[2]™) the CT-2/CT-3 eliminates all "false alarm" triggers.

WARBLING IDENTIFIER TONE

All Trilithic leakage receivers generate an audible tone that varies in pitch with leakage strength. In addition to tagging for prevention of false triggers, the CT-2/CT-3 provides a low-frequency tag so a detected leak will cause the audible tone to "warble," rising and falling in pitch at the rate of 3 oscillations/second. If the distinctive "warbling" sound is not detected, the operator can be sure that the leak did not originate in the tested system.

DISCRIMINATING RECEIVER

The Super Plus, Seeker, and Seeker Lite[2] contain special circuitry that is sensitive only to the tagged signal from the CT-2/CT-3 and rejects any signals that do not contain it. With the tag function switched on, a Trilithic leakage receiver is immune to power line interference, ignition noise and leaks from overbuilt systems.

ENHANCED SENSITIVITY

The CT-2/CT-3 gives the detection circuitry of the Super Plus up to four times more sensitivity than the other leakage detectors. This makes it possible to detect leaks at up to four times the distance and to track down small leaks that radiate from points of signal ingress.

EASY-TO-INSTALL

The CT-2/CT-3 is very simple to install and can be used with any modulator or signal processor model. Simply insert the CT-2/CT-3 in the line between the processor and the headend combiner.

CT-2

Modulates one of the standard video carriers in the systems mid band channel line-up.

CT-3

Generates a tagged carrier at a customer-specified frequency. Used when a suitable video channel is not available.

CT-2/CT-3

Specifications

CT-2

Compatibility	Compatible with Trilithic's Super Plus, Seeker, and Seeker Lite² leakage receivers
Modulation	Sine wave
Modulation Rate	Selectable 3 Hz and 20 Hz (other frequencies available as an option)
Depth of Modulation	Settable, 0.5 to 5 dB (3 Hz only) 20 Hz fixed at 3 dB
Input/Output Impedance	75 Ω (nominal)
Power	115 VAC, 230 VAC or DC with 100 to 240 VAC charger (set up at the factory)
Mechanical Packaging	1U (1.75") rack enclosure

CT-3

Compatibility	Compatible with Trilithic's Super Plus, Seeker, and Seeker Lite² leakage receivers
Modulation	Sine wave
Modulation Rate	Selectable 3 Hz and 20 Hz (other frequencies available as an option)
Depth of Modulation	Settable, 0.5 to 5 dB (3 Hz only) 20 Hz fixed at 3 dB
Input/Output Impedance	75 Ω (nominal)
Carrier Frequency	107 to 157.25 MHz; crystal controlled
Carrier Output	47 to 60 dBmV
Spurious	-60 dBc
Power	115 VAC, 230 VAC or DC with 100 to 240 VAC charger (set up at the factory)
Mechanical Packaging	1U (1.75") rack enclosure