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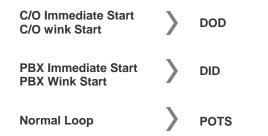
DigiSmart™ 4100 / 4200-RT

FEATURES 5 SIGNALING MODES TO MEET ALL YOUR DID, DOD, AND LOCAL LOOP LINE SIGNAL TEST REQUIREMENTS

The DigiSmart[™] 4100-RT is a trunk tester so versatile and so comprehensive, it has been awarded a U.S. patent recognizing its uniqueness. It packs the power to test both ends of a circuit into a handheld unit that the technician can take to every job.

Add MF digit capabilities to the 4100-RT and you have the 4200-RT model. Affordably priced, both models are an industry best buy.

Five signaling modes are available at the touch of a button:



Transmit DTMF or Dial Pulse digits. Display up to 32 digits on the 4-line LCD. Scan each digit to analyze timing. Send and receive MF tones as well with the 4200-RT model.

Other features include:

- BRIDGE OR TERMINATE CIRCUIT
- 600 OR 900 OHM IMPEDANCE
- 1004Hz TONE SOURCE
- WINK TIMING ANALYSIS DISPLAYED
- 11 STANDARD CALL PROGRESS TONES
- VISUAL DISPLAY OF STATUS MESSAGES
- BANTAM AND MODULAR TEST JACKS
- SPEAKER FOR AUDIBLE MONITORING
- RUGGED RELIABLE CONSTRUCTION

U.S. PATENT 4,843,620



The DigiSmart[™] 4100-RT and 4200-RT come complete with hardshell plastic carrying case, wall-mount AC adapter, 6-foot test lead with bantam plug and two 5-way alligator clips, instruction booklet and one-year warranty.

DigiSmart[™] 4100 / 4200-RT Specifications

Display Alphanumeric LCD

Alphanumeric LCD1.5 inch round4 lines, 16 char/linevolume control32 digits maximuminternal mountSignal levels are referenced to 900 ohms in the specifications below

Speaker

10 dB

DTMF/Dual-Tone Multi-Frequency

TRANSMIT (Store, Send & Repeat)	
Tone Duration	50 msec
Interdigit Duration	50 msec
Transmit Rate	10 digits/second
Level: Low/High Group	-6 / -3 dBm +/- 2 dB
RECEIVE	
Tone Duration (min)	35 msec
Interdigit Duration (min)	35 msec
Receive Rate (max)	14 digits/sec
Sensitivity Range	0 to -30 dBm

Dial Pulse

Twist (maximum)

TRANSMIT (Store. Send & Repeat)	
Pulse Rate	10 pulses/second
Percent Break	67%
Interdigit Period	800 msec
RECEIVE	

Pulse Rate (min / max) Percent Break (min / max) Interdigit Period (minimum)

MF/Multi-Frequency

TRANSMIT (Store, Send & Repeat)
KP Tone Duration
Duration of all other tones
Interdigit Period
Tone Level (each tone)

RECEIVE

Sensitivity Range KP Tone Duration (min) Duration of all other tones Interdigit Duration (min) Twist (maximum) 0 to -25 dBm 60 msec 40 msec 40 msec 6 dB

8 to 16 pulses/sec

35% / 80%

160 msec

100 msec

70 msec

70 msec -6 dBm +/- 1 dB

Special MF tones are displayed as two characters, reducing display capacity to less than 32 digits

Tone Source

Frequency Level into 900 ohms Level into 600 ohms 1004 Hz +/- 2 Hz 0 dBm +/- 0.2 dB 2 dBm +/- 0.5 dB

Call Progress Tones

Frequencies (single or dual) Transmit Level (each tone) Transmit Level (each tone) Frequency Accuracy Timing Accuracy

KEY	TONE NAME	FREQ. 1	FREQ. 2
1	Dial Tone	350 Hz	440 Hz
2	Reorder	480 Hz	620 Hz
3	Busy	480 Hz	620 Hz
4	Audible Ring	440 Hz	480 Hz
5	Recall Dial	350 Hz	440 Hz
6	Special AR	440 HZ	480 Hz
7	Intercept	440 Hz	620 Hz
8	Call Waiting	440 Hz	
9	Busy Verification	440 Hz	
0	Executive Override	440 Hz	
*	Confirmation	350 Hz	440Hz

350, 440, 480, 620 Hz

-10 dBm nominal

-10 dBm nominal

+/- 2.5% of nominal

+/- 0.75%

DID Parameters

Line Resistance 1700 ohms maximum Wink Type **Reverse Battery** Off-Hook/Wink Delay 100 msec nominal Wink Duration 200 msec nominal Receive Inhibit Period 30 msec nominal -48 VDC nominal Normal Battery Voltage Reverse Battery Voltage 48 VDC nominal Battery Source Resistance Balanced 220 ohms Current Current limited to 70 ma

Wink Timing Analysis

C/O WINK START MODE Pre-Wink Interval Wink Duration PBX WINK START MODE Post Wink Interval

Analysis Resolution Analysis Accuracy

Power Requirements AC Adapter Input Voltage

Output Voltages

Dimensions / Weight Instrument

Instrumen

Carrying Case

Class B transformer, 8 ft. cord 120 VAC, 60 Hz + 15 and -60 VDC

2.9 x 4.2 x 8.1 inches (7.4 x 10.7 x 20.6 cm)

1.75 lb (0.8 kg)

10 to 999 msec 100 to 290 msec

0 to 999 msec

1 msec

+/-2 msec

4.6 x 11 x 13.5 inches (11.7 x 27.9 x 39 cm)

4 lbs (1.8 kg)

