V SERIES Station

APCO Project 25 Station 136-160, 145-174 or 440-470 MHz Single or Dual Transceivers 512 Frequencies 50 or 100 Watts RF Power Remote Diagnostics Windows Based Programming



Powe

owerful. Innovative. Rugged and reliable. The new dual radio station is a compact, multimode transceiver package which provides agencies with APCO Project 25 compliant digital radio channels. Its compact size and high level of flexibility make it an ideal solution for any organization starting out on the digital migration path. Discover world-class communications for today.



 $W \text{ or ld } C \text{ lass } R \text{ adios.} {}^{^{\mathrm{TM}}}$

APCO Project 25 Station 136-160, 145-174 or 440-470 MHz 1 or 2 Channels 50 or 100 Watts RF Power



REPEATER STATION MODEL NUMBERS Commercially Powered		RECEIVER
DDV20 126 160 MU7		A l'exact Channel Delection
DRV50P	150 - 100 MHZ	Adjacent Channel Rejection
DRUSO	400 470 MHZ	25 KHZ 80 dB
DRUJU	400 - 470 MHZ	12.5 KHZ /U dB Consistentiate (12 dD CINIAD) 110 dDm
		Sensitivity (12 dB SINAD) -118 dBm
RASE STATION MODEL NUMBERS with Control Options		Sensitivity for BER 5% -110 dBm
broe ormion mobile nombers with control options		Signal Displacement Bandwidth
DBV50	126 160 MUT	12.5 kHz $\leq 1 \text{ kHz}$
DBV50	150 - 100 MHZ	$\leq 2 \text{ kHz}$
DBV50B	145 - 1/4 MHZ	Frequency Stability 0.1 ppm
DBU30	400 - 470 MHZ	Intermodulation Rejection 80 dB
		Spurious and Image Response Rejection 90 dB
Energy on the Mills	126 160 1/5 17////0 /70	Audio Response
Channels	150-100, 145-1/4/440-4/0	Analog: +1 to -3 dB ¹
Channels DE Outrout Wette	1 OF 2	Digital: as per TSB102.CAAB
RF Output - watts	50 OF 100	Audio distortion
Frequency Stability	$\pm 0.1 \text{ ppm}$	Analog: $\leq 1000 \text{ Hz} @ 60\% \text{ RSD}$
Nominal RF Impedence	50 ONMS	12.5 kHz 5%
Power Supply	12/24/48 VDC, 110/240 VAC	25 kHz 3%
Analog Performance	Conforms to TIA / EIA 603	Digital: as per TSB102.CAAB
Digital Performance	Conforms to ISBI02.CAAB	Line Output -20 dBm to 0 dBm @ 60% RSD, 1 kHz
Operating Frequencies S	electable across full band in 1 Hz steps	FM Hum and Noise 1000 Hz tone @ 60% RSD
Operating Temperature -C°	-30 to +60	25 kHz 50 dB nominal
Size - W x H x D -in. 1	9 (483mm) x 14 (8RU or 355 mm)	12.5 kHz 45 dB nominal
	x 1/.4 (440 mm)	Digital as per TSB102.CAAB
Mass - Ibs.	-	RF Input Impedance 50 ohms
Single Radio	50	1
Dual Radio	/0	¹ From 6 dB per octave de-emphasis, 300 - 3000 Hz referenced to
		1000 Hz at line input.
TRANSMITTER		
Transmit Output Power	6-50 W and 12.5-100 W modules	
	Adjustable in 1dB steps	
Transmit Bandwidth	Full band	
Intermodulation Attenuation	40 dB (70 dB with isolators)	
Maximum Deviation		
25 kHz Analog:	5 kHz	FCC ID# N6FC100059
12.5 kHz Analog	2.5 kHz	Specifications subject to change without notice
Digital	as per TSB102 CAAB	Measurements made in accordance with applicable TIA standards.
Audio Sonsitivity	25 dBm to 0 dBm variable	© 2001 BK Radio
Audio Selisitivity		
Spurious and Harmonic	90 UB	
Emissions Attenuation		
Hum and Noise	300 to 3000 Hz bandwidth, 60% RSD	🥒 🥂 🖉 🖉 🖉
25 kHz	50 dB nominal	
12.5 kHz	45 dB nominal	
Audio Response		A DIVISION OF RELM WIRELESS CORPORATION
Analog	+1 to -3 dB ¹	7100 TECHNOLOGY DRIVE • WEST MELEDIURNE FI 32004
Digital	as per TSB102 CAAB	900 6/8 00/7 • (221) 08/ 1/1/ • Eav (221) 08/ 0/2/
Audio Distortion	as per robroz.ormb	000-040-094 / = (321) 304-1414 = rax (321) 304-0434
Audio Distolitoli		www.reim.com
	4 00/ 1000 H. @ (00/ DOD	www.icini.com
Analog:	≤ 2% 1000 Hz @ 60% RSD	www.ichii.com
Analog: Digital:	≤ 2% 1000 Hz @ 60% RSD as per TSB102.CAAB	www.itilii.tolii
Analog: Digital: ¹ From 6 dB per octave pre-	≤ 2% 1000 Hz @ 60% RSD as per TSB102.CAAB emphasis, 300 - 3000 Hz referenced to	www.itilii.tolii
Analog: Digital: ¹ From 6 dB per octave pre- 1000 1	≤ 2% 1000 Hz @ 60% RSD as per TSB102.CAAB emphasis, 300 - 3000 Hz referenced to Hz at line input.	www.itili.tolii