

Measurement Results at Pospol Pekayon and Environment

(Day/date: Sunday/23 July 2006; time: 09:00-11:30)

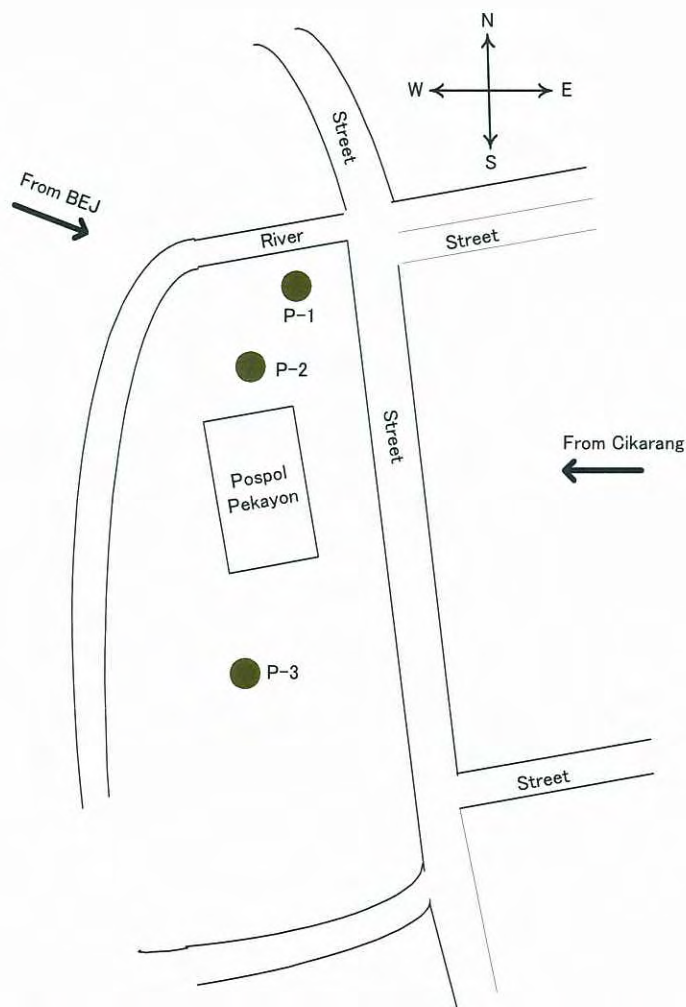


Fig-1. Map of Pospol Pekayon and Positions of Measurement

Table 1. Measurement Results at Pospol Pekayon

No.	Position	Control signal level		Note:
		From BEJ (dBu)	From Cikarang (dBu)	
1.	P-1	20.3	12.2	Max signal from BEJ
2.	P-2	11.1	11.0	Max signal almost same
3.	P-3	13.2	13.1	Max signal almost same

Antenna height from ground = 3 meters

Consideration:

As seen in Table 2, at position P-1, signal level from BEJ is stronger than one from Cikarang. At positions P-2 and P-3, signal levels from both base stations are almost the same. So, when a fixed directional antenna is installed outside the Pospol Pekayon, it will be better to direct to BEJ station.

Measurement Results at BKPM Mekarsari and Environment

(Day/date: Sunday/23 July 2006; time: 12:30-13:45)

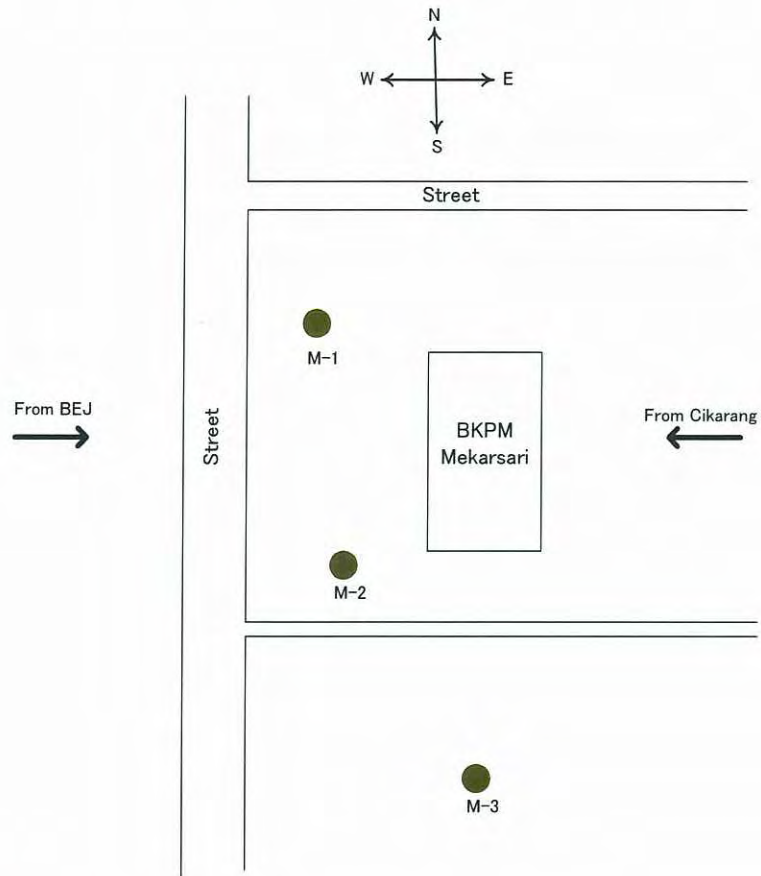


Fig-1. Map of BKPM Mekarsari and Positons of Measurement

Table 2. Measurement Results at BKPM Mekarsari

No.	Position	Control signal level		Note:
		From BEJ (dBu)	From Cikarang (dBu)	
1.	M-1	20.2	30.2	Max signal from Cikarang
2.	M-2	28.1	23.4	Max signal from BEJ
3.	M-3	21.3	29.2	Max signal from Cikarang

Antenna height from ground = 3 meters

Consideration:

As seen in Table 2, at position M-2, signal level from BEJ is stronger than one from Cikarang. At positions M-1 and M-3, signal levels from Cikarang are stronger than ones from BEJ. When a fixed directional antenna is installed outside the BKPM Mekarsari, it will be better to direct to Cikarang station from the result.

Measurement equipment used:

- Log periodic antenna ML666A (average gain = 5 dBi)
- Coaxial cable 5D-3W; 8 meter (total loss = 2.8 dB)
- Measuring receiver ML524C

Report For Talkgroup

Jul 17, 2006 5:20:20 PM

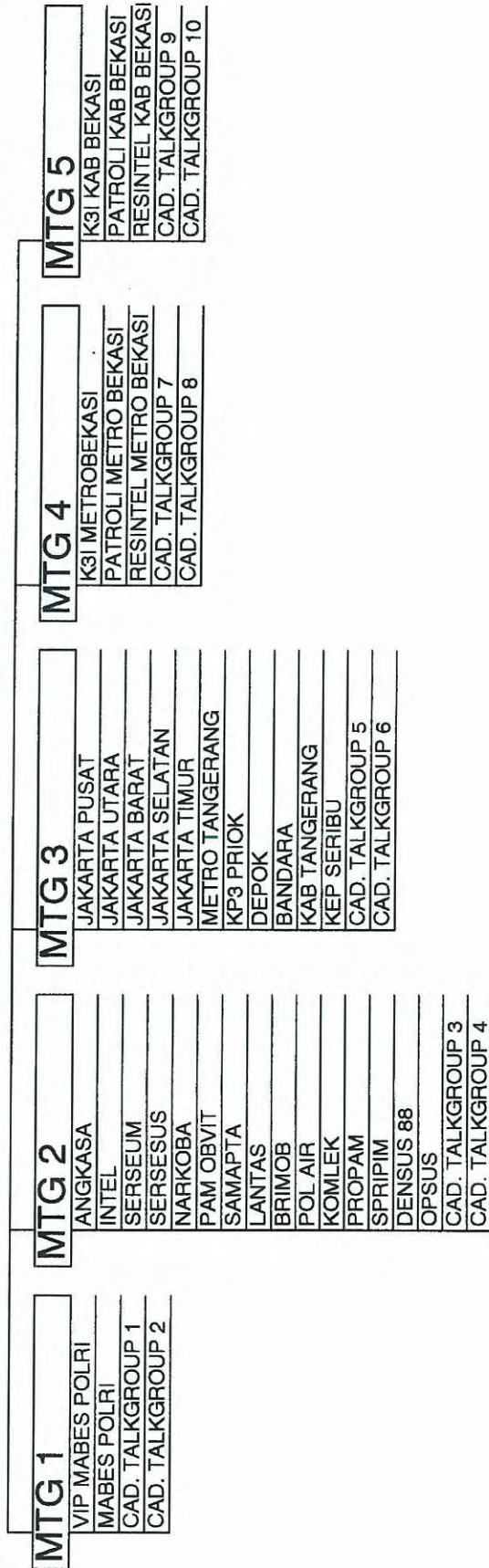
Total Number of Records Selected: 50

Talkgroup Alias	Talkgroup ID	Security Group	TG/MG Capabilities Profile Alias	TG/MG Site Access Profile Alias	Modulation Type	Talkgroup Enabled
CAD AVLS-1	800081	SYSTEM	AVLS GROUP	ALL SITES	Analog	Yes
CAD AVLS-2	800083	SYSTEM	AVLS GROUP	ALL SITES	Analog	No
CAD AVLS-3	800085	SYSTEM	AVLS GROUP	ALL SITES	Analog	No
CAD TG RESBKS1	800113	SYSTEM	TEMPLATE	ALL SITES	Analog	No
CAD TG RESBKS2	800115	SYSTEM	TEMPLATE	ALL SITES	Analog	No
CAD TG TROBKS1	800109	SYSTEM	TEMPLATE	ALL SITES	Analog	No
CAD TG TROBKS2	800111	SYSTEM	TEMPLATE	ALL SITES	Analog	No
CKR GATUR	800371	SYSTEM	CAKRA	ALL SITES	Analog	Yes
CKR P J R	800957	SYSTEM	CAKRA	ALL SITES	Analog	Yes
CKR PATWAL	800735	SYSTEM	CAKRA	ALL SITES	Analog	Yes
K3J RES BKS	800073	SYSTEM	TEMPLATE	ALL SITES	Analog	Yes
K3I TRO BKS	800059	SYSTEM	TEMPLATE	ALL SITES	Analog	Yes
MBS DENMA	800099	SYSTEM	TEMPLATE	BEJ ONLY	Analog	Yes
MBS KORBPRIMOB	800097	SYSTEM	TEMPLATE	BEJ ONLY	Analog	Yes
MBS MABES	800013	SYSTEM	TEMPLATE	BEJ ONLY	Analog	Yes
MBS NARKOBA	800819	SYSTEM	TEMPLATE	ALL SITES	Analog	Yes
MBS TELEMATIKA	800101	SYSTEM	TEMPLATE	ALL SITES	Analog	Yes
MBS VIP	800011	SYSTEM	TEMPLATE	ALL SITES	Analog	Yes
PMJ ANGKASA	800015	SYSTEM	TEMPLATE	ALL SITES	Analog	Yes
PMJ BRIMOB	800031	SYSTEM	TEMPLATE	ALL SITES	Analog	Yes
PMJ DEN 88	800041	SYSTEM	TEMPLATE	BEJ ONLY	Analog	Yes
PMJ INTEL	800017	SYSTEM	TEMPLATE	BEJ ONLY	Analog	Yes
PMJ KOMLEK	800035	SYSTEM	TEMPLATE	ALL SITES	Analog	Yes
PMJ KPPP	800057	SYSTEM	TEMPLATE	BEJ ONLY	Analog	Yes

Report For Talkgroup

PMJ KRIM UM	800019	SYSTEM	TEMPLATE	BEJ ONLY	Analog	Yes
PMJ KRIMSUS	800021	SYSTEM	TEMPLATE	BEJ ONLY	Analog	Yes
PMJ LANTAS	800029	SYSTEM	TEMPLATE	ALL SITES	Analog	Yes
PMJ NARKOBA	800023	SYSTEM	TEMPLATE	BEJ ONLY	Analog	Yes
PMJ OBVIT	800025	SYSTEM	TEMPLATE	BEJ ONLY	Analog	Yes
PMJ OPSUS	800043	SYSTEM	TEMPLATE	BEJ ONLY	Analog	Yes
PMJ POL AIR	800033	SYSTEM	TEMPLATE	BEJ ONLY	Analog	Yes
PMJ PROPAM	800037	SYSTEM	TEMPLATE	BEJ ONLY	Analog	Yes
PMJ SAMAPTA	800027	SYSTEM	TEMPLATE	BEJ ONLY	Analog	Yes
PMJ SPRIPIM	800039	SYSTEM	TEMPLATE	BEJ ONLY	Analog	Yes
PTR RES BKS	800075	SYSTEM	TEMPLATE	ALL SITES	Analog	Yes
PTR TRO BKS	800061	SYSTEM	TEMPLATE	ALL SITES	Analog	Yes
RES BANDARA	800067	SYSTEM	TEMPLATE	BEJ ONLY	Analog	Yes
RES BARAT	800049	SYSTEM	TEMPLATE	BEJ ONLY	Analog	Yes
RES DEPOK	800065	SYSTEM	TEMPLATE	BEJ ONLY	Analog	Yes
RES KAB TNG	800069	SYSTEM	TEMPLATE	BEJ ONLY	Analog	Yes
RES P1000	800071	SYSTEM	TEMPLATE	BEJ ONLY	Analog	Yes
RES PUSAT	800045	SYSTEM	TEMPLATE	BEJ ONLY	Analog	Yes
RES SELATAN	800051	SYSTEM	SAT-TG	BEJ ONLY	Analog	Yes
RES TIMUR	800053	SYSTEM	TEMPLATE	BEJ ONLY	Analog	Yes
RES TRO TNG	800055	SYSTEM	TEMPLATE	BEJ ONLY	Analog	Yes
RES UTARA	800047	SYSTEM	TEMPLATE	BEJ ONLY	Analog	Yes
RIN RES BKS	800077	SYSTEM	TEMPLATE	ALL SITES	Analog	Yes
RIN TRO BKS	800063	SYSTEM	TEMPLATE	ALL SITES	Analog	Yes
SZ\$DEF	804097	SYSTEM	SZ\$DEF	SZ\$DEF	Analog	Yes
SZ\$INIT	804096	SYSTEM	SZ\$INIT	SZ\$INIT	Analog	Yes

STRUKTUR



NO.	NAME OF TALK GROUP	DISPLAY NAME MAX 11 CHARACTERS (according to radio settings)							TG ID		FAIL SOFT			Keterangan		
		DEC (80XXXX)	HEX (3disit)	SITE	CH	FREK.										
01	MTG 1	M	T	G	1				80 0001	001					ROAMING	
02	MTG 2	M	T	G	2				80 0003	003					ROAMING	
03	MTG 3	M	T	G	3				80 0005	005					ROAMING	
04	MTG 4	M	T	G	4				80 0007	007					ROAMING	
05	MTG 5	M	T	G	5				80 0009	009					ROAMING	
06	VIP MABES POLRI								80 0011	00B	BEJ	CH24	853.1625		ROAMING	
07	MABES POLRI								80 0013	00D	BEJ	CH24	853.1625			
08	ANGKASA								80 0015	00F	BEJ	CH02	856.1125			
09	INTEL								80 0017	011	BEJ	CH03	857.1125			
10	SERSEUM								80 0019	013	BEJ	CH03	857.1125			
11	SERSESUS								80 0021	015	BEJ	CH03	857.1125			
12	NARKOBA								80 0023	017	BEJ	CH03	857.1125			
13	PAM OBVIT								80 0025	019	BEJ	CH04	858.1125			
14	SAMAPTA								80 0027	01B	BEJ	CH04	858.1125			
15	LANTAS								80 0029	01D	BEJ	CH23	852.1625			
16	BRIMOB								80 0031	01F	BEJ	CH04	858.1125			
17	POL AIR								80 0033	021	BEJ	CH04	858.1125			
18	KOMLEK								80 0035	023	BEJ	CH22	851.1625		ROAMING	
19	PROPAM								80 0037	025	BEJ	CH05	859.1125			
20	SPRIPIM								80 0039	027	BEJ	CH07	854.2125			
21	DENSUS 88								80 0041	029	BEJ	CH08	855.2125			
22	OPSUS								80 0043	02B	BEJ	CH08	855.2125			
23	JAKARTA PUSAT								80 0045	02D	BEJ	CH09	856.2125			
24	JAKARTA UTARA								80 0047	02F	BEJ	CH10	855.0625			
25	JAKARTA BARAT								80 0049	031	BEJ	CH11	856.0625			
26	JAKARTA SELATAN								80 0051	033	BEJ	CH12	857.0625			
27	JAKARTA TIMUR								80 0053	035	BEJ	CH13	858.0625			
28	METRO TANGERANG								80 0055	037	BEJ	CH14	859.0625			
29	KP3 PRIOK								80 0057	039	BEJ	CH15	851.1125			
30	K3I METROBEKASI	K	3	I	T	R	O	B	K	S	80 0059	03B	CIK	CH01	851.0125	ROAMING
31	PATROLI METRO BEKASI	P	T	R	T	R	O	B	K	S	80 0061	03D	CIK	CH02	852.0125	
32	RESINTEL METRO BEKAS	R	I	N	T	R	O	B	K	S	80 0063	03F	CIK	CH03	853.0125	ROAMING
33	DEPOK								80 0065	041	BEJ	CH16	852.1125			
34	BANDARA								80 0067	043	BEJ	CH19	852.0625			
35	KAB TANGERANG								80 0069	045	BEJ	CH20	853.0625			
36	KEP SERIBU								80 0071	047	BEJ	CH21	854.0625			
37	K3I KAB BEKASI	K	3	I	K	A	B	B	K	S	80 0073	049	CIK	CH04	854.0125	ROAMING
38	PATROLI KAB BEKASI	P	T	R	K	A	B	B	K	S	80 0075	04B	CIK	CH05	855.1375	
39	RESINTEL KAB BEKASI	R	I	N	K	A	B	B	K	S	80 0077	04D	CIK	CH06	856.1375	ROAMING
40	AVL 1								80 0079	04F	CIK	CH07	857.1375			
41	CAD. AVL 1								80 0081	051	CIK	CH07	857.1375			
42	CAD. AVL 2								80 0083	053	CIK	CH08	858.1375			
43	CAD. AVL 3								80 0085	055	CIK	CH08	858.1375			
44	CAD. MTG 1	C	A	D	M	T	G	1	80 0087	057						
45	CAD. MTG 2	C	A	D	M	T	G	2	80 0089	059						
46	CAD. MTG 3	C	A	D	M	T	G	3	80 0091	05B						
47	CAD. MTG 4	C	A	D	M	T	G	4	80 0093	05D						
48	CAD. MTG 5	C	A	D	M	T	G	5	80 0095	05F						
49	CAD. TALKGROUP 1	C	A	D	T	G	1		80 0097	061	BEJ	CH01	855.1125			
50	CAD. TALKGROUP 2	C	A	D	T	G	2		80 0099	063	BEJ	CH01	855.1125			
51	CAD. TALKGROUP 3	C	A	D	T	G	3		80 0101	065	BEJ	CH02	856.1125			
52	CAD. TALKGROUP 4	C	A	D	T	G	4		80 0103	067	BEJ	CH02	856.1125			
53	CAD. TALKGROUP 5	C	A	D	T	G	5		80 0105	069	BEJ	CH03	857.1125			
54	CAD. TALKGROUP 6	C	A	D	T	G	6		80 0107	06B	BEJ	CH03	857.1125			
55	CAD. TALKGROUP 7	C	A	D	T	G	7		80 0109	06D	CIK	CH05	855.1375			
56	CAD. TALKGROUP 8	C	A	D	T	G	8		80 0111	06F	CIK	CH05	855.1375			
57	CAD. TALKGROUP 9	C	A	D	T	G	9		80 0113	071	CIK	CH06	856.1375			
58	CAD. TALKGROUP 10	C	A	D	T	G	1	0	80 0115	073	CIK	CH06	856.1375			
									80 0117	075						
									80 0119	077						
									80 0121	079						
									80 0123	07B						
									80 0125	07D						

POLRES METRO BEKASI

NO	SATKER	RANGE ID		ALOKASI	KET
01	POLRES	705500	705749	250	
02	BEKASI BARAT	705750	705799	50	
03	BEKASI UTARA	705800	705849	50	
04	BEKASI TIMUR	705850	705899	50	
05	BEKASI SELATAN	705900	705949	50	
06	PONDOK GEDE	705950	705999	50	
07	JATI ASIH	706000	706049	50	
08	BT. GEBANG	706050	706099	50	

TOTAL 600

POLRES BEKASI

NO	SATKER	RANGE ID		ALOKASI	KET
01	POLRES	708100	708349	250	
02	CIKARANG	708350	708399	50	
03	LEMAH ABANG	708400	708449	50	
04	KEDUNG WARINGIN	708450	708499	50	
05	SERANG	708500	708549	50	
06	CIBARUSA	708550	708599	50	
07	SETU	708600	708649	50	
08	BABELAN	708650	708699	50	
09	TARUMA JAYA	708700	708749	50	
10	SUKATANI	708750	708799	50	
11	PEBAYURAN	708800	708849	50	
12	TAMBELANG	708850	708899	50	
13	CABANG BUNGIN	708900	708949	50	
14	MUARA GEMBONG	708950	708999	50	
15	TAMBUN	709000	709049	50	
16	CIBITUNG	709050	709099	50	

TOTAL 1000

STASIONER

NO	SATKER	RANGE ID		ALOKASI	KET
01	AVL	709100	709199	100	

TOTAL 100

MOBILE RADIO

NO	SATKER	RANGE ID		ALOKASI	KET
01	STASIONER	709200	709699	500	

TOTAL 500

ZONE	DISPLAY	BASE	KAPOLRES	MCS2000	ATS2500
ZONE1	K3I TRO BKS	TG1	TG1	TG1	TG1
	PTR TRO BKS	TG2	TG2	TG2	TG2
	RIN TRO BKS	TG3	TG3	TG3	TG3
	K3I KAB BKS	TG4	TG4	TG4	TG4
	PTR KAB BKS	TG5	TG5	TG5	TG5
	RIN KAB BKS	TG6	TG6	TG6	TG6
	CAD TG 07	TG7	TG7	TG7	TG7
	CAD TG 08	TG8	TG8	TG8	TG8
	CAD TG 09	TG9	TG9	TG9	TG9
	CAD TG 10	TG10	TG10	TG10	TG10
	LANTAS	TG11	TG11	TG11	TG11
	ANGKASA	TG12	TG12	TG12	TG12
	BRIMOB	TG13	TG13	N/A	N/A
	MTG 4	TG14	TG14	N/A	N/A
	MTG 5	TG15	TG15	N/A	N/A
ZONE2	PUSAT	TG1	TG1	N/A	N/A
	UTARA	TG2	TG2	N/A	N/A
	BARAT	TG3	TG3	N/A	N/A
	SELATAN	TG4	TG4	N/A	N/A
	TIMUR	TG5	TG5	N/A	N/A
	TNG KOTA	TG6	TG6	N/A	N/A
	K-P-P-P	TG7	TG7	N/A	N/A
	DEPOK	TG8	TG8	N/A	N/A
	BANDARA	TG9	TG9	N/A	N/A
	TNG KAB	TG10	TG10	N/A	N/A
	P 1000	TG11	TG11	N/A	N/A
	CAD 5	TG12	TG12	N/A	N/A
	CAD 6	TG13	TG13	N/A	N/A

Site: Polda DKI Zone: #1 ZONE001 Site: #1 BEI POLDA 001

1	Control Channel	2	3	4	5	6
7	GR 0018	9	10	GR 0711	GR 0112	
	800057 705000			800061 705764	800029 703255	
13	14	15	16	17	18	19
			800735 701242			800055 709400

Site: Cikarang Zone: #1 ZONE001

1	Control Channel	2	3	4
5	GR 0116	7	8	GR 07
	800029 703255			800061 705764

Busy: busy: Zone: #1 ZONE001

BUSY QUEUE

Grid: Grid: Zone: #1 ZONE001

Busy: none

1	Control Channel	2	3	4
5	PMJ KPPP ZC\$5000	7	GR 0003	
9	PTR TRO BKS ZC\$5764	10	GR 0711	GR 0112
			PMJ LANTAS ZC\$3255	
13	14	15	16	
17	RES TRO TMC ZC\$9400	18	GR 01019	20
21	GR 0422	23	24	
	CKR PATWAL ZC\$1242			

Grid: Cikarang

Busy: none

1	Control Channel	2	3	4
5	GR 0116	7	8	GR 07
	800029 703255			800061 705764

Raw: default: Zone: #1 ZONE001

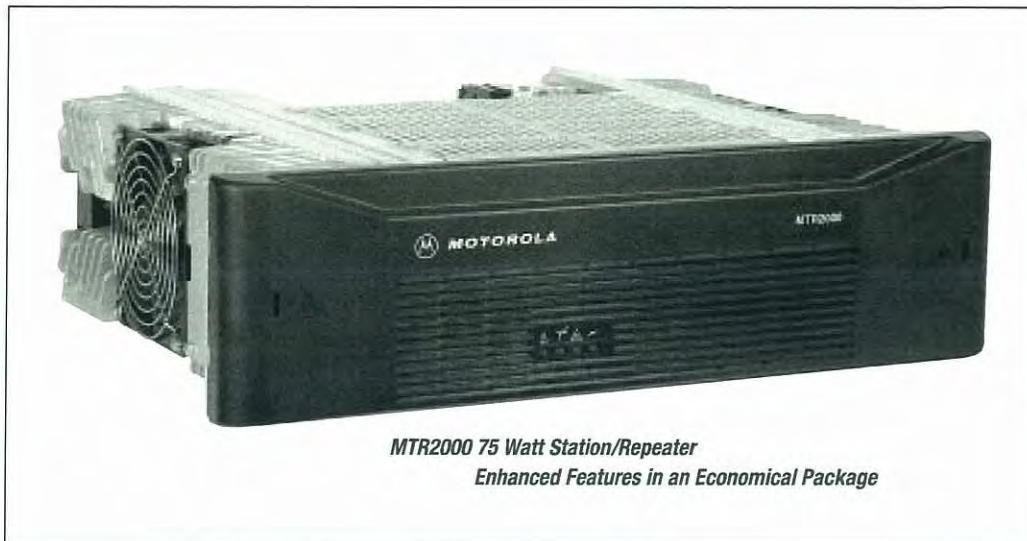
[07/17/06 17:27:19] Call Activity Update - PTT-ID Update Active ; OL Call# = (5713880) ; Call Type (Talkgroup) ; Call# = 1 ; Active/Busy Status = Global Active ; Individual = 703255(0xCB7
 [07/17/06 17:27:19] Radio Status Traffic - Subscriber Reject ; Reason = #71, Individual not allowed to interrupt current audio source ; Individual = 701223(0x4C7)[SecId=1] ZC\$1223 ; Request
 [07/17/06 17:27:19] Radio Status Traffic - Deaffiliation ; Reason = Deaffiliation by ISW ; Individual = 705585(0x15D1)[SecId=1] ZC\$5585 ; Target Group = 800059(0x3B)[SecId=1] K3I TRO BK
 [07/17/06 17:27:20] Radio Status Traffic - Radio Affiliation ; Individual = 709245(0x241D)[None]ZC\$9245 ; Target Group = 800059(0x3B)[SecId=1] K3I TRO BKS ; Requester Affiliation { Type
 [07/17/06 17:27:20] Controlling Zone Update - End of Call ; Reason = Disconnect complete ; Controlling ZoneID = 1 ; Call Type (Talkgroup) ; OL Call# = (5713991) ; Call Sequence# = 2 ; Inc
 [07/17/06 17:27:20] End Of Call - ZC End of Call ; Reason = Disconnect complete ; Call# = 17 ; OL Call# = (5713991) ; Predetermined CZ Controlled = Yes ; ZoneID { Controlling = 1 ; Local = 1
 [07/17/06 17:27:20] Controlling Zone Update - PTT-ID Active Control ; Controlling ZoneID = 1 ; Active/Busy Status = Global Active ; Call Type (Talkgroup) ; OL Call# = (5713880) ; Call Se
 [07/17/06 17:27:20] Call Activity Update - PTT-ID Update Active ; OL Call# = (5713880) ; Call Type (Talkgroup) ; Call# = 1 ; Active/Busy Status = Global Active ; Individual = 703255(0xCB7
 [07/17/06 17:27:20] Controlling Zone Update - End of Call ; Reason = Disconnect complete ; Controlling ZoneID = 1 ; Call Type (Talkgroup) ; OL Call# = (5713993) ; Call Sequence# = 2 ; Inc
 [07/17/06 17:27:20] End Of Call - ZC End of Call ; Reason = Disconnect complete ; Call# = 18 ; OL Call# = (5713993) ; Predetermined CZ Controlled = Yes ; ZoneID { Controlling = 1 ; Local = 1
 [07/17/06 17:27:20] Controlling Zone Update - Start of Call ; Controlling ZoneID = 1 ; Active/Busy Status = Global Active ; Reason for Busy = No Reason ; Call Type (Talkgroup) ; OL Call#
 [07/17/06 17:27:20] Call Activity Update - Start of New Call ; Reason for Busy = No Reason ; Phone State = No Transpond ; Busy Zone Contributor = No ; OL Call# = (5713994) ; Call Type (

MTR2000

800/900 MHz Station/Repeater/Receiver

MTR2000
Station/Repeater
available in:

- ▶ **Conventional:**
Local Operation
Tone Remote Control
Spectra-TAC Voting
- ▶ **Trunking:**
SMARTNET and
SmartZone
- ▶ **Continuous Duty**



*MTR2000 75 Watt Station/Repeater
Enhanced Features in an Economical Package*

FEATURES/BENEFITS

Provides Unmatched Flexibility in a Compact Design

- ▶ Analog operation in conventional systems
- ▶ Analog operation in SMARTNET or SmartZone trunking systems
- ▶ Software based design allows for future system applications
- ▶ 75-20 Watt variable power models
- ▶ Compact dimensions, 3 rack units (5.25" or 13.3 cm), utilize expensive site space efficiently
- ▶ 12.5 or 25 kHz programmable channel spacing (800 MHz)
- ▶ 12.5 kHz channel spacing (900 MHz)

Shortens Installation and Maintenance Time

- ▶ Programming and diagnostic testing performed through a personal computer
- ▶ Standard EIA 19" rack mount configuration
- ▶ Lightweight (40 lbs/19 kg)
- ▶ Functionally separate modules:
Field Replaceable Units (FRU)
- ▶ Software based design simplifies upgrades

Contributes to Maximizing System Up-Time

- ▶ Microprocessor based design with integrated DSP capability
- ▶ Continuous duty cycle operation
- ▶ Self testing monitors station performance
- ▶ Switching power supply functions over a wide range of voltages and frequencies



MTR2000 Station/Repeater

SPECIFICATIONS

GENERAL SPECIFICATIONS

Model Number:	T5544, T5731		
Application	System Software Option	Power/Band Option	RF Power Output
Conventional Analog SMARTNET 6809 Analog Trunking SmartZone 6809 Analog Trunking	X597	X450 (851-870 MHz)	75-20
	X997 X51	X460 (935-940 MHz)	75-20
No. of Frequencies:	Up to 32	Modulation:	FM
Frequency Generation:	Synthesized	Temperature Range:	-30°C to +60°C*
Channel Spacing:	12.5 kHz/25 kHz 800 MHz 12.5 kHz 900 MHz	Antenna Connectors:	Transmit and Receive, Type "N" Female
Mode of Operation:	Simplex / Semi-duplex / Duplex		
Input Voltage AC:	65-264VAC, 47-63 Hz		
Optional DC Only Operation	26.6 VDC (75 Watt station)		
Operational Battery Revert:	24 VDC (75-20 Watt stations) Output power may be reduced up to 3 dB in battery revert mode to conserve battery life.		
All Stations and Receivers	Dimensions	Weight	
Alternative Cabinet Enclosures	5.25 x 19 x 16.5 in. † (133 x 483 x 419 mm)	40 lbs † (19 kg)	
30" Indoor Cabinet	30 x 22 x 20 in. (762 x 559 x 508 mm)	66 lbs** (30 kg)	
46" Indoor Cabinet	46 x 22 x 20 in. (1168 x 559 x 508 mm)	75 lbs** (34 kg)	
60" Indoor Cabinet	60 x 22 x 20 in. (1524 x 559 x 508 mm)	102 lbs** (46 kg)	
30" Modular Rack	30 x 22 x 20 in. (762 x 559 x 508 mm)	52 lbs** (24 kg)	
45" Modular Rack	46 x 22 x 20 in. (1168 x 559 x 508 mm)	59 lbs** (27 kg)	
52" Modular Rack	60 x 22 x 20 in. (1524 x 559 x 508 mm)	61 lbs** (28 kg)	

† Applies to standard station configuration

*Temperature specification applies to one station per cabinet only. See Product Planner for details.

** Enclosure Only

800/900 MHz INPUT POWER (VARIES WITH OPTIONS)

	DC Only Operation (x121 Option) Neg. Gnd. or Battery Revert
	28 VDC
AC Line	
117 Volts / 220 Volts	
Standby	0.7A / 0.4A
75 W - Transmit	4.5A / 2.5A
	1A
	800 MHz: 10A / 900 MHz: 11A

TRANSMITTER

	800 MHz	900 MHz
Frequency - 75 Watt:	851-870 MHz	935-940 MHz
Bandwidth:	Full Band	Full Band
Output Impedance:	50 Ohms	50 Ohms
Frequency Stability: (for temperature and voltage variation)	1.0 PPM/External Ref (optional)	External Reference Required
Intermodulation Attenuation:	50 dB	50 dB
Maximum Deviation (RSD):		
25 kHz:	±5 kHz	NA
12.5 kHz:	±2.5 kHz	±2.5 kHz
Audio Sensitivity:	-20 dBm to 0 dBm variable	-20 dBm to 0 dBm variable
Spurious and Harmonic Emissions Attenuation:	80 dBc	80 dBc
FM Hum and Noise: (750µs de-emphasis)		
25 kHz:	300 to 3000 Hz bandwidth, 60% RSD	300 to 3000 Hz bandwidth, 60% RSD
12.5 kHz:	50 dB nominal	NA
	45 dB nominal	45 dB nominal
Audio response:	+1, -3 dB from 6 dB per octave preemphasis; 300-3000 Hz referenced to 1000 Hz at line input.	+1, -3 dB from 6 dB per octave preemphasis; 300-3000 Hz referenced to 1000 Hz at line input.
Audio distortion:	Less than 3% at 1000 Hz; 60% RSD	Less than 3% at 1000 Hz; 60% RSD
Emission Designators:	1K0F3E, 13K6F1D*	11K0F3E, 8K60F1D*

*New FCC emission designators are the result of recent FCC policy changes.

RECEIVER

	800 MHz	900 MHz
Frequency - Wideband:	806-825 MHz	896-901 MHz
Bandwidth:	Full Band	Full Band
Selectivity:		
25 kHz:	60 dB	NA
12.5 kHz:	70 dB	70 dB
Sensitivity 12 dB SINAD	0.35µV	0.35µV
Signal displacement Bandwidth: (Off Channel Acceptance) (12.5/25 kHz)	1 kHz / 2 kHz	1 kHz / NA
Frequency Stability: (for temperature and voltage variation)	1.0 PPM/External Ref (optional)	External Reference Required
Intermodulation Rejection: (Intermodulation) (12.5 and 25 kHz)	85 dB	85 dB
Spurious and Image Response Rejection:	90 dB	90 dB
Audio Response:	+1, -3 dB from 6 dB per octave de-emphasis; 300-3000 Hz referenced to 1000 Hz at line input.	+1, -3 dB from 6 dB per octave de-emphasis; 300-3000 Hz referenced to 1000 Hz at line input.
Audio Distortion:	Less than 3% at 1000 Hz; 60 % RSD	Less than 3% at 1000 Hz; 60 % RSD
Line output:	-20 dBm to 7 dBm, @ full system deviation @ 1 kHz	-20 dBm to 7 dBm, @ full system deviation @ 1 kHz
FM Hum and Noise: (750µs de-emphasis)		
1000 Hz tone @ 60% RSD	1000 Hz tone @ 60% RSD	NA
25 kHz:	50 dB nominal	NA
12.5 kHz:	45 dB nominal	45 dB nominal
RF Input Impedance:	50 Ohms	50 Ohms

FCC TYPE ACCEPTANCE

Frequency Range in MHz	Type	Power Output in Watts	Type Acceptance Number
851-870	Transmitter	75-20	ABZ89FC5785
806-825	Receiver	NA	ABZ89FR5786
935-940	Transmitter	75-20	ABZ89FC5788
896-901	Receiver	NA	ABZ89FR5789

Industry Canada Approval: Type T554X 109195112

Note: Specifications per TIA/EIA 603.

Specifications subject to change without notice.



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