

Selective call

Five-tone modulation	switch off	6 REF	☼
	switch on	7 REF	☼
Switch off AF continuous tone with			
6 REF and 0 MOD GEN	(frequency)		
Selective call standard	ZVEI 1 (coder/decoder)	8 REF	
	CCIR (coder/decoder)	9 REF	
Selective call standard	#) ZVEI 1	1 8 0 REF	
for coder	#) ZVEI 2	1 8 1 REF	
#) coder/decoder	#) CCIR	1 8 2 REF	
	#) CCIR 70	1 8 3 REF	
	EEA	1 8 4 REF	
	EIA	1 8 5 REF	
	EURO	1 8 6 REF	
Special code (for entry see Manual, function of REF key)		1 8 7 REF	
Selective call coder	normal	1 9 0 REF	☼
First tone	700 ms	1 9 1 REF	☼
First tone	450 ms	1 9 2 REF	☼
Selective call coder	normal	1 9 3 REF	☼
Repeat tone	at first place	1 9 4 REF	☼
Emergency tone	at first place	1 9 5 REF	☼
Emergency tone	at last place	1 9 6 REF	☼
Selective call decoder reset		1 0 REF	
read out, reset		1 1 REF	

Special measurement functions

Acknowledgement signal measurement			
Preparation:			
Set transmitter frequency	(value)	SIGN GEN	
Store with		STO 0	
Receiver measurement mode		REC	
Set receiver frequency and modulation			
Measurement:			
Switch off AF frequency		0 MOD GEN	
Switch on selective call coder		7 REF	
Switch on acknowledgement signal measurement		1 0 5 REF	
Send tone sequence	(code)	MOD GEN	
The code is entered via the keyboard.			
The received tone sequence is indicated on the RF frequency display.			
Repeat measurement:			
Switch on receiver measurement mode		REC	
Send tone sequence		MOD GEN	
Switch off measurement		1 0 6 REF	
Adjacent-channel power meter:			
Apply RF signal to RF or FREQ. METER input			
(for μ W measurements: RF input only)			
Enter channel spacing	(value)	Δ F	
Enter rated frequency	(value)	SIGN GEN	
Measurement upper channel		NKL or μ W	
lower channel		- NKL or - μ W	
Measurement without channel limits		1 1 7 REF	☼ *
with channel limits		1 1 8 REF	
RF millivoltmeter			
Changeover key for V or dBm indication		PROBE	
RF millivoltmeter	0-dB probe	1 7 REF	
	20-dB probe	1 8 REF	☼
	40-dB probe	1 9 REF	☼

Generator settings

RF frequency	in MHz	1 2 3 . 4 5 6 7 SIGN GEN
Δ F	in kHz	
RF level	in μ V, mV, dB μ V, dBm	
For modulation see relevant field		
AF frequency	in kHz	1 . 2 3 4 MOD GEN
AF level	in mV	1 2 3 0 MOD GEN
By pressing the setting key, the corresponding measurements are switched off and the set value is displayed again. The RF level is converted to the corresponding unit and display.		

General functions

Reinitialization of whole equipment		9 9 REF	
Switching off the functions marked by *		0 REF	
Cursor		1 REF	
Setting BCD outputs via BU401		1 0 0 0 REF	
Second figure = 1st decade			
Third figure = 2nd decade		1 9 9 9 REF	
Fourth figure = 3rd decade			
Switching relays via BU402		2 0 1 REF	
First figure = relay number			
Second figure = 0 = relay open		9 0 1 REF	
1 = relay closed			
RF test diode	switch off	1 2 0 REF	☼ *
(Prevents RF distortion at 30-dB output)			
RF test diode	switch on	1 2 1 REF	
Rejection filter for AF and modulation measurement	switch on	1 2 2 REF	☼ *
	switch off	1 2 3 REF	
Frequency switchable with	300 Hz, 500 Hz, 1 kHz		

Frequency responses

AF: reference: instantaneous value		1 1 1 REF	☼ *
reference: AF level setting		1 1 2 REF	☼ *
MOD: reference: instantaneous value		1 1 3 REF	☼ *
reference: modulation setting		1 1 4 REF	☼ *
Indication for (111 to 114) on the RESULT display in dB			
Frequency response indication	off	1 1 0 REF	

Demodulation

Modulation measurement peak only		1 2 6 REF	☼ *
rms only		1 2 7 REF	☼ *
autom. switchover		1 2 5 REF	
Modulation sensitivity (automatic setting of rated deviation on test item in transmitter measurement)		2 REF	
Reference modulation setting			
Rapid deviation meter, remote measurement			
Switch on transmitter measurement		TR	
Enter reception frequency via keyboard and press modulation selection key \rightarrow M or \rightarrow FM			
The entered frequency 200 kHz is displayed.			
Duplex deviation meter	on	1 6 1 REF	
	off	1 6 0 REF	

Modulation

MOD int	in kHz, rad or %	1 . 2 5 MOD INT
MOD ext	in kHz, rad or %	2 . 3 5 MOD EXT
Modulation is switched on and off by pressing the corresponding key without entering numerical value.		
Two-tone modulation		
Switchover of AF generator 2	400 Hz	2 0 0 REF
	1000 Hz	2 0 1 REF
AF source for second-modulation	AF Gen. 2	2 0 2 REF
See Manual 2.3.3.3.4	AF Gen. 1	2 0 3 REF
Modulation setting	2000 + mod.	2 0 0 0 REF
of second-modulation AF	FM: 1000 = 10 00 kHz	
	Φ M: 1000 = 1 000 rad	3 0 0 0 REF
	AM: 1000 = 100.0%	
Example:		
2.4 kHz FM deviation		2 2 4 0 REF

* REF function is switched off with 0 REF

☼ LED in REF key lights

Sensitivity

SINAD	without numerical value: measur. on/off (value)	SINAD	
S/N	with value in dB: sensitivity measurement (value)	S/N	
Mean value over	{15} measurements for	3 REF	
	{50} SINAD, S/N and	4 REF	
	{150} bandwidth	1 4 REF	
Quieting		1 1 9 REF	
Measurement of RF sensitivity for 20-dB noise suppression. RF level is indicated on LEVEL display, noise suppression is indicated on RESULT.			
Note on bandwidth and quieting measurements: Prior to calling up the bandwidth test routines, the test set must be initialized by entering rated RF and, if necessary, modulation frequency in the kHz range.			
Upon completion of the measurement, the device functions are disabled and the displays of centre-frequency error and bandwidth must be erased by pressing the REC key.			
Indication of RF variation	on	1 0 7 REF	☼ *
	off	1 0 8 REF	
Indication of RF variation up to \pm 99.9 kHz referred to current RF setting. Indication on AF display.			
Bandwidth measurement	without centre-freq. error	1 1 5 REF	*
Indication on AF display	with centre-freq. error	1 1 6 REF	*
Indication of centre-frequency error on RF display.			
Squelch sensitivity		1 2 9 REF	*

Storage functions

	Store	Fetch	
RF setting	STO 0	RCL 0	
	to		
	STO 2	RCL 2	
RF variation in kHz	(value) STO 3	RCL 3	[- 3]
	(value) STO 4	RCL 4	
	(value) STO 5	RCL 5	
Complete device settings	STO 90	RCL 90	
	to		
	STO 95	RCL 95	

Measurement functions

RF level meter	changeover key for Watt or dBm	W/dBm
	An external attenuator connected to the RF input is taken into account in power measurement and RF level setting by calling	
	5 REF (value in dB W/dBm).	
Example:	for 3.2-dB attenuator	5 REF 3 . 2 W/dBm
RF freq. meter	Select counter resolution with: (value) TR or FREQ MET	
	Value = 1 0 $\hat{=}$ 10 Hz resolution. value = 1 $\hat{=}$ 1 Hz resolution	
AF freq. meter	Select counter resolution with:	
	(value) EXT NF AC or DEMOD or BEAT	
	(value = 1 $\hat{=}$ 1 Hz resolution. value = . 1 $\hat{=}$. 1 Hz resolution)	
Distortion	Switch on and off with ON	
	Select frequency 1 kHz, 300 Hz, 500 Hz with \updownarrow	
DC meter	U/I DC changeover key for voltage and current measurement	

Deutscher Text umseitig. Karte durchbiegen und wenden.