

TX station: EXAMPLE

Site name: TEST8

**General data of antenna system**

TX station	EXAMPLE
Site name	TEST8
Site longitude (+ddd°pp'ss")	
Site latitude (+dd°pp'ss")	
Ground level a.s.l. (m)	100
Antenna system height a.g.l. (m)	50.0
Transmitter power (Watt)	1000.0
Carrier wave frequency (MHz)	98.00
Antenna system central frequency (MHz)	98.00
Filename of antenna base diagrams type 1	AKY3.ANT
Filename of antenna base diagrams type 2	
Antenna system polarization (H, V, C)	V
Transmitting cable attenuation (dB)	0.5
Additional attenuations (dB)	0.5
Base diagrams sectors (A = all, F = front)	A
Velocity factor of cables to antennas (0÷1)	0.89
Coordinate system (C = cartesian, P = polar)	P
Mast side/diameter (cm):	10.0
Mast cross section (Triangular, Square, Circular)	C
Mast rotation w.r.t. North (°)	0
Project picture filename (*.bmp)	

**Information about antennas used in the project***Antenna of type 1*

Manufacturer	LABEL ITALY SRL
Antenna model	AKY/3 - YAGI 3 EL FM
Band start (MHz)	87.5
Band stop (MHz)	108
Diagrams frequency (MHz)	98
Polariz. (H, V, C)	V
Vertical dist. (cm)	260
Height (cm)	180
Width (cm)	6
Thickness (cm)	129
Weight (Kg)	11
Maximum power (KW)	2
Gain (dBd)	5.75
North E.C. (cm)	0
East E.C. (cm)	0
Return loss (dB)	-26.33
R.C. phase (°)	-54.94

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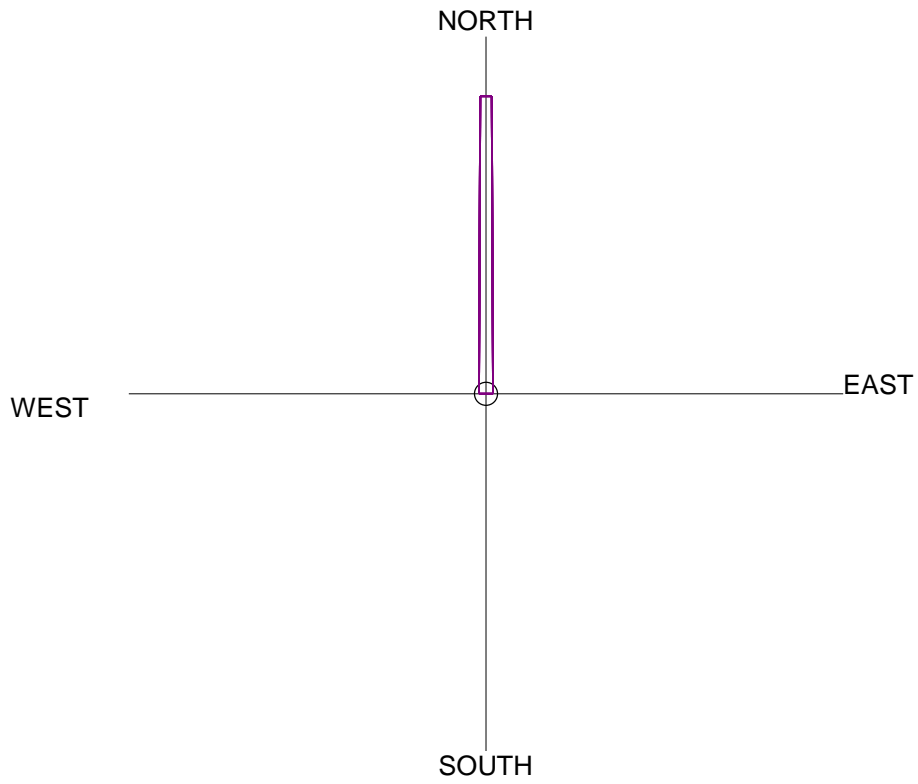
**Geometr. and electrical data of antenna system**

	<i>Power</i> (%)	<i>Tilt</i> (°)	<i>Az.</i> (°/N)	<i>Phase</i> (°)	<i>V dist.</i> (m)	<i>Scr-D</i> (cm)	<i>Scr-Az</i> (°/N)	<i>Rot.</i> (1÷4)	<i>Type</i> (1÷2)	<i>L cables</i> (cm)	<i>Car. phase</i> (°)
1	12.500	0	0	0 + 0	8.75	0.0	0.0	1	1	0.0	0.0
2	12.500	0	0	0 + 0	6.25	0.0	0.0	1	1	0.0	0.0
3	12.500	0	0	0 + 0	3.75	0.0	0.0	1	1	0.0	0.0
4	12.500	0	0	0 + 0	1.25	0.0	0.0	1	1	0.0	0.0
5	12.500	0	0	0 + 0	-1.25	0.0	0.0	1	1	0.0	0.0
6	12.500	0	0	0 + 0	-3.75	0.0	0.0	1	1	0.0	0.0
7	12.500	0	0	0 + 0	-6.25	0.0	0.0	1	1	0.0	0.0
8	12.500	0	0	0 + 0	-8.75	0.0	0.0	1	1	0.0	0.0

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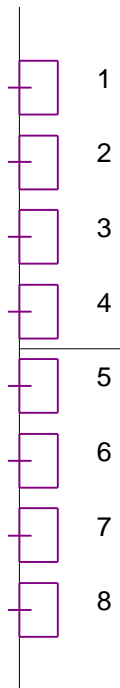
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### Plan of antenna system



### Side of antenna system

Az. 0°



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### Antennas arrays data

A. Antennas array azimuth (°N)	0
B. Number of antennas	8
C. Nominal power supply (W)	1000.00
D. Losses (addit. + cables) (dB)	1.0
E. Effective power supply (W)	794.33
F. Theor. maximum gain (dBd)	14.78
G. Distribution losses (dB)	0.00
H. Nominal max gain [F - G] (dBd)	14.78
I. Compensation losses (dB)	0.00
J. Effec. max gain [H - I] (dBd)	14.78
K. Effec. max gain (times)	30.07
L. Effec. max power [E * K] (KW)	23.8831
M. Max power depr. angle (°)	0.0

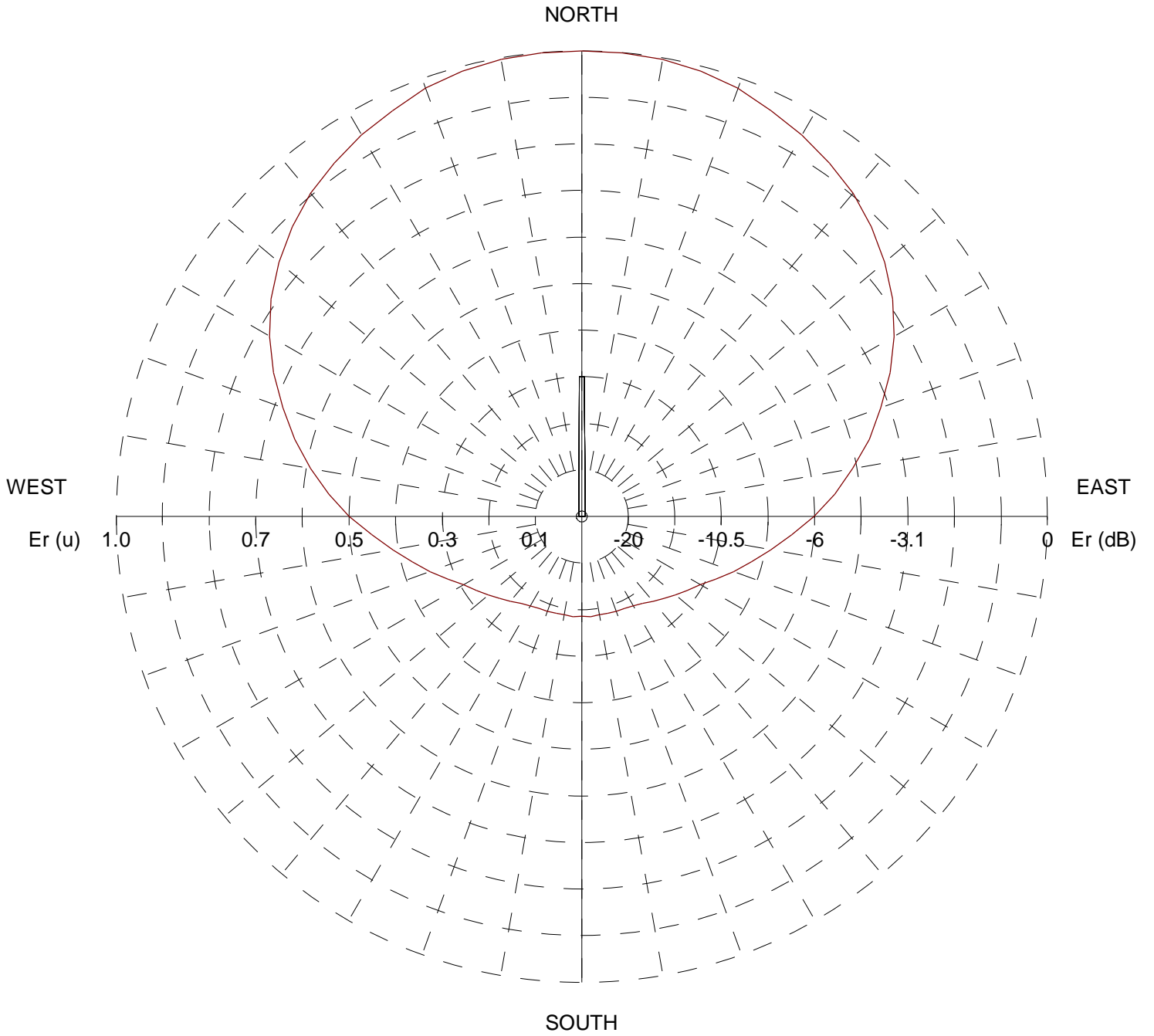
### Diagram in dBK calculated at horizon

Az. (°N)	dBK	Az. (°N)	dBK	Az. (°N)	dBK	Az. (°N)	dBK
0	13.8	90	7.7	180	0.4	270	7.7
10	13.8	100	6.1	190	0.4	280	9.2
20	13.6	110	4.6	200	0.5	290	10.5
30	13.3	120	3.1	210	0.7	300	11.6
40	12.9	130	2.1	220	1.3	310	12.4
50	12.4	140	1.3	230	2.1	320	12.9
60	11.6	150	0.7	240	3.1	330	13.3
70	10.5	160	0.5	250	4.6	340	13.6
80	9.2	170	0.4	260	6.1	350	13.8

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### Horizontal diagram



— 0.0° depres. (Total antenna), Gain (dBd): 14.8 ERP T.max (KW): 30.067 ERP E.max (KW): 23.883

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### Vertical diagram

