



8)5

,QIUDURWWKHUPRPHWHU %HGLHQXQJVQDQOHLWXQJ



:LFKWLJH 6LFKHKHLWVLQIRUPDWLRQHQ

/HVOH 6L GLH IROJHGHO %SQZHLVXQJHQ ELWWH DXIPHUNDP GXUFK EHYRU

6LH GDV "HUIW YHUZHGHQH

▲ :5181*

△ "LHVHV 7KHUPRPHWHU LVW QLFWK DOV (UDW) L U LHOHO SUJWEHVXFK JHGDFK 6LH OHVVKJL GHU 6WLUWHPHSUDWXLU VROOHM OXU DOV 5HIIHOU YHUZHGHQH ZLUGHQ
 △ "LJUXOGOJHOGHO 6LFKHKHLWVYRUNH KUXQJHQ VROOHWQ LPHU EHROJW VHZHQ EHKLQGHUWHQ 3HUVRQHO YHUZHGHQH ZLUG
 △ "SHKUKHO 6LH GDV "HUIW QLFWK LO SHLFIKZHLW YRQ. LQGHUQ DXI
 △ "DVFHQH 6LH GLH /LOHV QLFWK DO
 △ "RGLWQH 6LH GDV "HUIW QLFWK
 △ "DV 9HUVFQXNHQ YRQ. OHLWHLHO ZLH GHU 9HUSDFNXQ %DWWHULHGHFNHQ
 △ "HWF NDQQ JX (UWLFNHQ I KUHQ

▲ \$+781*

△ "QXWQHJHO 6LH ELWWH NHLOH 9HUG QXQJVPLWWHO \$ONRKRO RGHU 5HQLJXQJHEQJLQ XPDGV JX UHOLQH %HDQGHOQ 6LH HV PLW 9RUVLFK XQG EZHDKUHO 6LH HY YRU 6W UJHO
 △ "7DXFKHO 6LH HV ELWWH QLFWK LO J VVJLNLHWHQ HOHQ
 △ "5HQLQHWHQPHO 6LH GLH %DWWHULH ZHQQ 6LH GDV "HUIW I U 0RQDWL QLFWK
 △ "VUVH 6LH GLH %DWWHULH ZHQQ 6LH GDV 6PERO I U QLHGULHQ /DGHVWQDG VHKKH
 △ "OLVFKHO 6LH NHLOH DWWHO XQG QXHQH %DWWHULH
 △ "1XVHQH 6LH GDV "HUIW QLFWK ZIKUHQG GHP 7UDQVSRUW
 △ "6WHOHQH 6LH VLPKU GDV GHU %HWHUHE GHY "HUIW QLFWK XQH LHOQH OIQJHUQ
 △ "9HQLWQHUVFQWLNQHQ GHU %OXWLNQDWLRO GHY 3DWLHQWQH KUW .JLFLNHQ 6LH GDV 7IS & DEHO QLFWK GD GLHV GHQ %OXWIOXV EORFLNHUHQ XQG X
 △ "9HOUHWXQJHQ GHV %HQXWJHUV I KUHQ NDQQ

(\$WVLUJXQJ

△ "QWVRUJHQ 6LH HOHNWULVFKH "HUIW QLFWK LP -DXV OQ VROGHO YHUZHGHQH 6LH VHSODUWH 6DPHOVWWDLWQHO ROWDNWLUHO BH LKUH /RNDYHIZUDQXQJ XQ. QIRUPDWLRQHQ JX GHQ
 △ "LVSODI

△ "DUWQXQJ XQH 3IOJHJ
 △ "9%ZDKUHQH 6LH GDV 7KHUPRPHWHU LQ LHOHO WURFHQHO 8PJEXHQ LQ VHLQH %R DXI ZHQQ
 △ "HJXHOU 6LH GDV "HUIW QLFWK ZIKUHQG GHP 7UDQVSRUW
 △ "XKSHQH 6LH GDV "HUIW PLW QLFWK WURFHQHO ZHLFKHQ 7XFK 9HUZHGHQH 6LH NHLOH
 △ "VFKHUXQHQH 3XWPLWQH
 △ "7DXFKHO 6LH HVW LQH LO :DVHVU HLO
 △ "S015.81" HUW "HUVWVHOHOH 9HUXKUH QLFWK YHDOQWZRUWLFK I TXDOLWDWLYH RGHU
 △ "WFFKGLVFKH FPKHQH GLH ZLH LO GLHVH QSOHLWQXQJ DXJH KUW GXUFK LQNRUHNW 9HUZHGHQJ
 △ "XQG 3IOJHJ HOUWVWDQGHQ VLOG

(\$WVLUJXQJ

(LQVWOOHQ GHV *HUIWV

SP XQWUHQH 7HLO GHV "HUIWV JLEW HV HLQ NOHLOHV /RFK) KUHQ 6LH HLQHQ 6FKUDXEHQJLHKHU
PLW PP XUFKPHV/HUHQ GDV /REK HLQ XP)ZL VFK HQ & XQG) XZ HFKVHQ

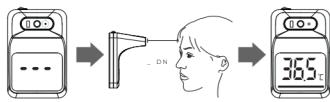


Celsius/°C

Fahrenheit/°F

%HGLHQXQJ

'U FNHQ 6LH GHQ 67557 67233. QRSI XP GDV 7KHUPRPHWHU JX YUHZHQHQ SOOH
6PEROH HUVFKLHQO DQGD DXI GHP 'LSODI XOG 6LH KJHQH LQHQ NXUHQH 3LHSWRQ
6WQHQHQ 6LH VLFK VR YRU GDV "HUIW GDV, KUH 6WLUQ FP YRP 6HQVRU HQWHLQW LVW
"HUIW PLVQH, KUH 7HPSUDWXU GDQQ DXWRPDWLVF
:HQO GLH 0HVXQJ DEJHGVHQVHQ LVW KJHQH 6LH HLQHQ ODQHQ 3LHSWRQ XQG GDV 5HVXOWDW



"DV 7KHUPRPHWHU VFKDOWHW QDFK PLQ RQHQ 9HUHZHQXQJ DXWRPDWLVFK DXI 6WDQGE
:HQO GLH 6HQVRU %HZHJXQJ ZDKUQLPWP VFKDOWHW VLFK GDV "HUIW ZLHGHU HLQ

\$ODUPH

NXUHQH 3LHSWRQ ZHQQ GHU 6WURP DQJHVFKDOWHW LVW XQG GDV "HUIW JXU 0HVXQJ
EHUHLW LVW
ODQHQH 3LHSWRQ PLW JU QHU /(ZHQQ GLH 7HPSUDWXUHVXQJ XQWHU
&) OHLW
NXUHQH 3LHSWRQ PLW URWU /(ZHQQ GLH 7HPSUDWXUHVXQJ EHU
) OHLW
NXUHQH 3LHSWRQ PLW URWU /(ZHQQ GDV "HUIW GLH 0HVXQJ QLFKW NRUJN
GXUFKI KUHQ NRQHQH

'LH +DXW YRQ %DEIV UHDJLHWU VHUK VFKQHOO DXI GLH 8PJPHEXQJVWHPSH
UDWUQ D KHU VROOWH
LKHU 7HPSUDWXU QLFKW ZIKUHQG RGHU QDFK GHP 6WLOOQH JHPPVHQ
ZHUGHQ GD GLH
+DXWVHPSUDWXU GDQQ QLHGULJHU VHLO NQHQH DOV GLH LQHQHUNJUS
HUOLFKH 7HPSUDWXU

)HKOHUPHOGXQJHQ

Symbol

,P8PJHEXQJVPRGXV OHLJW GLH JHPPVHQ 7HPSUDWXU EHU GHP
0HVVEHULFK YRQ &)

,P8PJHEXQJVPRGXV OHLJW GLH JHPPVHQ 7HPSUDWXU XQWHU GHP
0HVVEHULFK YRQ &)

1LHQH 7HPSUDWXU QLHGULJHU 6LH GDV 7IS & /DHJHUI RGHU
QDGHQH GLH %DWHULHDXI
"DV 7KHUPRPHWHU/VWPH YHUVJDW RGHU ZLUG YRQ HLQHP
HOHNWURPDQJQHWLFKHO HOG EHHLQIOXVW

1DUDQWLH

9RP 7DJ GHV (UHZUEV DQ ZLUG GDV 3URGXNW I U HLQ -DKU ODQJ IHUH YRQ 9HUDUEHLWXQV
XQG 0DWHULDIOH KUHQH VHQ
=XU 5HSDUDWXU ZIKUHQG, GHU "DUDQWLHJHLW PXVV HLQ DXWRULVLHUWHU 'LHQVWOHLVWUH ZIKUHQG
GHU "DUDQWLHJHLW EHU GHQ JHKOHU LQ. HQQWQLV JHVHWJW ZHUGHQ 'LHV "DUDQWLH EHWWULI
QXU JHKOHU GLH ZIKUHQG GHU GRUPDOHQ 9HUZHQQXQJ XIWDXFKHQ -HGHU 6FKDGHQ GHU
GXUFK QDW UOLFKH BUYSU QJH HOWWWHWK J E hEHUVFKZHPXQJHQ 6W UPH HFV ZLUG
QLFWK YRQ GHU "DUDQWLH DEJHGHFNW "H "DUDQWLH GHFNW DXFK NLQH 6FKIGHQ DE GLH
GXUFK 8QIOOH (LQPLVFKHQ :DUXQJHQ GXUFK XQDXWRULVLHUWHU 'LHQVWOHLVWUH RGHU GXUFK
9HUZHQQXQJ KHUYRQH XZUGHQ GLH QLFWK YRQ GLHVHU \$QOHLWQJU HUODXEW XZUGH
"LH "DUDQWLH HUOLVFKW ZHQQ GDV 7KHUPRPHWHU PLVVEUDXFKW JZHNHQWUHGPWG RGHU
GLH \$QOHLWQJPLW \$EYQFWK YHUCDFKQIVYLJW ZXUGH RGHU ZHQQ GDV "HUIW PRGLILJLHW
ZXUGH
"DV "HUIW PVXV QLFWK NDOLEULHWU ZHUGHQ
"DV "HUIW LWW QLFWKHSBULHUEDU XQG HOWKIOU NHQH GXUFK GHQ 1XWJHU ZDUWEUDQH 7HLOH

9

10

11

12

7HFKQLVFKH %HVFKUHLEXQJ

\$OOH Q!WJHQ \$QZHHLVXQJH OXU SXUHFKWHKDOWXQJ GHU JXQGJHQQH 6LFKHUKHLW XQG
ZHVHQWLFHQ /HLVWXQJMLKHLW LQ %HJXJ DXI HOHNWURPDQJQHWLFK 6WJUXQJHQ ZIKUHQH
/HLDWIDQH XQG +HUVWHOHHUHUNOIUXQJ ± (OHNWRUPDQJQHWLFK /PLVVLQHQ XQG 6WJUHVWLJNHW

Tab HODH	
/HLDWIDQH XQG +HUVWHOHHUHUNOIUXQJ ± (OHNWRUPDQJQHWLFK /PLVVLQHQ	
Emissionstest	eHUUHLOQWLPXQJ
+ (PLVVLQHQ & 635	*UXSSH 1
+ (PLVVLQHQ & 635	.ODVHV B
2EHUZHOHQHPLV/LQH1000-3-2	.ODVHV A
6SDQQXQJVVFZDQNXQJHQ JOLFHNU 61000-3-3	hEHUHLOQWLPXQJ

/HLDWIDQH XQG +HUVWHOHHUHUNOIUXQJ ± (OHNWRUPDQJQHWLFK /PLVVLQHQ	
Emissionstest	eHUUHLOQWLPXQJ
+ (PLVVLQHQ & 635	*UXSSH 1
+ (PLVVLQHQ & 635	.ODVHV B
2EHUZHOHQHPLV/LQH1000-3-2	.ODVHV A
6SDQQXQJVVFZDQNXQJHQ JOLFHNU 61000-3-3	hEHUHLOQWLPXQJ

1HJUHTXHQ 0DQHWHIHQG	
30 A/m 30Hz/60Hz	30 A/m 50Hz/60Hz
1ELV 0+	1ELV 0+
*HOHLWHWHFEG1000-4-6 9UPV 9UPV LO, 80 XQG \$PDWHXU 9UPV 9UPV LO, 60 XQG \$PDWHXU IXQNEHULFKHQ SP EHL -+ IXQNEHULFKHQ SP EHL -+]	
10 V/m 80 MHz - 2.7 GHz 80 % AM EHL 1 kHz	10 V/m 80 MHz - 2.7 GHz 80 % AM EHL 1 kHz
\$10.581* 87 LVW GLH \$& 1HWNVSQXQJ YRU GHU 7HVWWXH	

Table 3

HLDWIDQH XQG +HUVWHOHHUHUNOIUXQJ ± (OHNWRUPDQJQHWLFK 6WJUHVWLJNHW						
7HVV IUCHXHQJ (+)	Band EUHLW IUCHXHQJ 0-1	Service	Modulation	Modulation Distan (W) (m)	6WJUHVWLJNHW SU IXQJ OHYHO 9 P	
SXVJ HUVWUDKOWHQ 385	380 - 390	TETRA 400	Puls modulation 18 Hz	1,8 0 3	27	
7HVV SHLINDWLRHQ THKXH DOVFKOKXV BWDWIDQH SU IXQJ NDEHORVHQ +XEHJKU	430 - 470	GMRS 460, FRS 460	J0 N1 N1 VDXVQ	2 0 3	28	
	704 - 787	LTE Band 13, FRS 460	Puls modulation 217 Hz	0 2 0 3	9	
	810 - 960	GSM 800/900, TETRA 800, iDEN 820, CDMA 850, LTE Band 5	Puls modulation 18 Hz	2 0 3	28	
	930					
0	1 700 - 1 990	GSM 1800; CDMA 1900; TETRA 1900; EDGE 136; LTE Band 1, 3, 4, 25; UMTS Bluetooth; WLAN, WLAN Band 5	Puls modulation 217 Hz	2 0 3	28	
1845						
1970						
2450	2 400 - 2 570	b/2400 b/2400 LTE Band 7 WLAN 802.11	Puls modulation 217 Hz	2 0 3	28	
524	5 100 - 5 800	a/n	Puls modulation 217 Hz	0 2 0 3	9	
0						
578						
5						

EM 9 (UNIOUXQJ

,& ,0 (\$865h6781* XQG (6-6701 ±, GHOWLILJLHUXQJ
,HQQJHFLKQXQJ XQG "RNXPQHWI 1 U 3URGXNW HGU .ODVHV %
DV 0 (48,3017 RGHU 0 (6-6701 ±, GHOWLILJLHUXQJ HUO HNQHQH
,HQQJHFLKUPWHDQXP 6LQH 1U GLQH JX HLOQH XQVDFKJHPQ HQ %HWULHE I KUHQ NQQWQH :HQ
+ JHVKLUPWHDQXP 6LQH 1U GLQH JX HLOQH XQVDFKJHPQ HQ %HWULHE I KUHQ NQQWQH :HQ
:DUQXQJ "LH 9HUHZHQXQJ GLHVHV "HUIW QHEHQ RGHU JHWDWSHOW PLW DQGHUHQ "LH
YHULPHQH ZHUGHQ GD GLHV JX HLOQH XQVDFKJHPQ HQ %HWULHE I KUHQ NQQWQH :HQ
VROFKH 9HUHZHQXQJ HUJRHQHOLFQ LWV ROFOHQ GLHVHV "HUIW XQG GLH DOGHUHQ
:ZHUGHQ XP VLFKUHJVXWQHQ GDVW GLH QRUPDO IXQNLVRLQH
:DUQXQJ "LH SHUHZHQXQJ YRQ =XEHJKU 6RQHQ XQG .DEHOH GLH QLFWK YRP +HUVW
"HUIW VSHLILJLHUV RGHU JHWDWSHOW PLW DQGHUHQ "LH
RGHU YHULPHQH ZHUGHQ NDQQ JX HUKKWHQ HOHNWURPDQJQHWLFK
:ZQHQHQHNDQHDEO XQG HWHQH SOWHQHQH VROFOHQ QLFWK QIKHU DO DVO FP =
LUJHQHLCQH 0 THLO GHV, QIUDURWWKHKUPRHWHVUW 7/ 7/ HLVQFKOLH OFLK G
+HUVWVHOHQH DQJH JHEHQH DEHO YHUHZHQH ZHUGHQ SGHQHOOHQDNDQQ JV
%HQLWQJIFKVWLJXQJ GHU /HLVWXQJ PVXQJ HUORUHQ JHKW RGHU
ZQHQ GLH ZHVHQWOLFQH /HLVWXQJ DXIJUXQG YRQ (6WJUXQJH QHUVHQH
YHUVFKHOFKWHUW ZLUG GHU GHQLQHUVWUH %HJULII AZHHQHOFKWH /HLVWXQJ PVXQJ

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