



- Robust design suitable for industrial applications ensures a long service life
- Variants for all common radio applications
- Classed as simple apparatus for use with the HFisolator

A5

MY R. STAHL 9790A

The Series 9790 antennas make it possible to use radio technologies in hazardous areas in conjunction with the 9730 HFisolator.


As the antennas are classed as simple apparatus, they can be used without the need for further testing. The robust design, paired with a wide temperature range, ensures a service life lasting many years.

	IECEX / ATEX					
Zone	0	1	2	20	21	22
Installation in		•	•		•	•

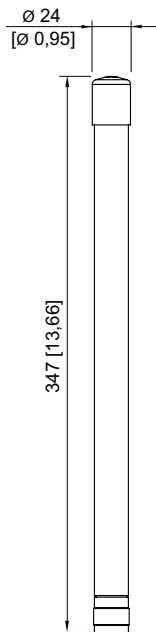
Selection Table						
Product description		Antenna				
Frequency range 1	Frequency range 2	Frequency range 3	Connection type	Product Type	Art. No.	Weight
2.4 – 2.485 GHz	5.15 – 5.875 GHz	–	N-type socket (female)	9790/1-2458-NTF-53	292909	110 g
		–	N-type plug (male)	9790/1-2458-NTM-53	292908	110 g
GSM (850/900/1800/1900)	3G (UMTS) (800-2100)	4G LTE (Band 1-4, 7, 10, 23, 25, 30, 33-41, 65, 66)	N-type plug (male)	9790/1-0826-NTM-02	292910	120 g

Technical Data		
Variant	9790/1-2458-NT-53	9790/1-0826-NTM-02
Explosion Protection		
Verification	Simple apparatus	Simple apparatus
Gas explosion protection	Ex ib IIC T6 Gb	Ex ib IIC T6 Gb
Dust explosion protection	Ex ib IIIC T80 °C Db	Ex ib IIIC T80 °C Db
Electrical Data		
Emission	Omnidirectional	Omnidirectional
Polarisation	Vertical	Vertical
Impedance	50 Ω	50 Ω
Gain	Gain 1: 4.7 dBi @ 2.4 GHz Gain 2: 3.4 dBi @ 5 GHz	2 dBi
VSWR	VSWR 1: 1.7 : 1 @ 2.4 GHz VSWR 2: 2 : 1 @ 5 GHz	< 4 : 1
Ambient Conditions		
Ambient temperature	-40 °C ... 80 °C	-40 °C ... 80 °C
Storage temperature	-40 °C ... 80 °C	-40 °C ... 80 °C

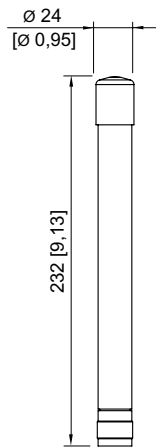
Technical Data		
Variant	9790/1-2458-NT.-53	9790/1-0826-NTM-02
Mechanical Data		
Degree of protection (IP)	IP65	IP65
Enclosure material	ABS, UV-resistant	ABS, UV-resistant
Material	Nickel-plated brass	Nickel-plated brass

Accessories			
Figure	Description	Art. No.	Weight
Installation kit			
	Installation kit for the antenna	207408	160 g

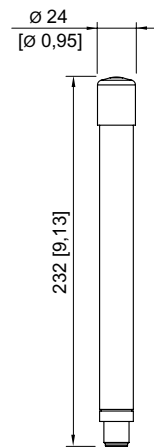
Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations



Antenna type 9790/1-0826-NTM-02



Antenna type 9790/1-2458-NTM-53



Antenna type 9790/1-2458-NTF-53