

## DATASHEET

## VALVE SENSE INSPECTION



## APPROVALS



ATEX approval: EX-Zone 1/21 requested  
 Ⓜ II 2G Ex ib IIC T4 Gb  
 Ⓜ II 2D Ex ib IIIC T135°C Db



IECEx approval: EX-Zone 1/21 requested  
 Ex ib IIC T4 Gb  
 Ex ib IIIC T135°C Db



UKCA approval: EX-Zone 1/21 requested  
 Ⓜ II 2G Ex ib IIC T4 Gb  
 Ⓜ II 2D Ex ib IIIC T135°C Db



NEC500 approval requested  
 Class I, II, III Division 1  
 Groups A B C D E F G T4

## IS540.1 SMARTPHONE

## TECHNICAL FEATURES SMARTPHONE MODEL M540A01

<b>Operating system</b>	Android™ 12
<b>Processor</b>	Qualcomm QCM6490
<b>Memory</b>	8 GB RAM   128 GB internal memory   microSD memory up to 128 GB
<b>Supported frequency bands</b>	2G GSM: 850/900/1800/1900 MHz 3G WCDMA: B1/2/4/5/8 4G LTE-FDD: B1/2/3/4/5/7/8/12 MFBI B13/14/17/20/25/26/28/29/30/66/71 4G LTE-TDD: B38/39/40/41/42/43/48 5G NR: n1/n2/n3/n5/n7/n8/n12/n20/n25/n28/n30/n38/n40/n41/n48/n66/n71/n77/n78/n79
<b>Dimensions</b>	Size: 180,0 x 84,9 x 20,6 mm   weight: 422 g
<b>Display</b>	6"   Gorilla Glass® 3 <sup>rd</sup> generation   1080 x 2160 pixels   FHD
<b>Battery</b>	4400 mAh   replaceable
<b>Camera</b>	48 MP AF rear camera   5 MP FF front camera
<b>SIM support</b>	1 nano SIM + eSIM
<b>Connections</b>	Wi-Fi 6: IEEE 802.11 a/b/g/n/ac/ax/e/k/r/v Bluetooth® 5.2 GPS, A-GPS, Glonass, A-Glonass, Beidou, Galileo Near Field Communication (NFC)
<b>Ports in/out</b>	16-pin ISM interface USB-C
<b>Sensors</b>	Accelerometer, Gyroscope, Light, Magnetic, Proximity, Pressure sensors
<b>Types of protection</b>	IP68 dust-/waterproof   MIL-STD-810H   usable from -20 °C to +55 °C



## IS-VS1A.1 INSPECTION EQUIPMENT

## TECHNICAL FEATURES MEASURING ELECTRONIC MODEL MVS1A01

<b>Analog band width</b>	20 ... 500 kHz
<b>Input range</b>	100 dBAE (opt. 94/134 dBAE)
<b>Sampling rate</b>	Res.: 2 MHz / 16 bit
<b>Noise floor</b>	<12 µVRMS (95 – 300 kHz)
<b>Power consumption</b>	<700 MW
<b>Dimension</b>	Size: 141,2 x 96,0 x 51,85 mm
<b>Operating temperature</b>	Usable from -20 °C to +60°C



Please visit our website and you will find more information of our devices.

## TECHNICAL FEATURES SENSORS

<b>IS-SU150F1.1</b>	Sensor Ultrasonic	
<b>Frequency range</b>	100 - 450 kHz	
<b>Operating temperature</b>	-40 °C ... + 120 °C	
<b>Connector</b>	SMB	
<b>Shield Cross-Talk</b>	> -80 dB	
<b>Dimension</b>	22,3 x 18,2 mm	
<b>Weight</b>	29 g	
<b>IS-SU150F2.1</b>	Sensor Ultrasonic	
<b>Frequency range</b>	100 - 450 kHz	
<b>Operating temperature</b>	-40 °C ... + 120 °C	
<b>Connector</b>	SMB	
<b>Shield Cross-Talk</b>	> -80 dB	
<b>Dimension</b>	22,3 x 37,5 mm	
<b>Weight</b>	63,4 g	
<b>IS-SU030F2.1 (optional)</b>	Sensor Ultrasonic	
<b>Frequency range</b>	25 - 80 kHz	
<b>Operating temperature</b>	-40 °C ... + 120 °C	
<b>Connector</b>	SMB	
<b>Shield Cross-Talk</b>	> -80 dB	
<b>Dimension</b>	22,3 x 37,5 mm	
<b>Weight</b>	64 g	
<b>IS-SC120BB1.1</b>	Sensor Cable	
<b>Length</b>	120 cm	2 pcs. / Set
<b>Connector</b>	SMB <-> SMB	
<b>Sheathing</b>	Braided hose	
<b>Temperature range</b>	-20 °C ... +60 °C	
<b>Weight</b>	20 g (each)	



## TECHNICAL FEATURES WAVEGUIDE

<b>IS-WGLF1.1</b>	Waveguide Lock	
<b>Diameter</b>	55 mm	Waveguide Lock; fixation for sensor F1" indicates used sensor
<b>Weight</b>	79,5 g	
<b>IS-WGxx.1</b>	Waveguide	
<b>Type</b>	Temperature sensor	
<b>Temperature range</b>	> 150 °C and < -50 °C	
<b>Dimension</b>	220 x 7 mm	
<b>Weight</b>	89,8 g	



## SET CONTENT

Measuring electronic IS-VS1A.1, Sensor IS-SU150F1.1, Sensor IS-SU150F2.1, Waveguide Lock IS-WGLF1.1, Waveguide IS-WGxx.1, 2 x Sensor Cable, Coupling medium, Coupling film, IS540.1 Smartphone, Battery, i.safe PROTECTOR 2.0 Type C USB Cable, Power Adapter universal, Screwdriver, Display Protection Foil, Display Cleaning Cloth, Quick Start Manual and Safety Instructions, Case

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