

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

| | |
|---------------------------|--|
| Operating system | Android™ 12 |
| Processor | Qualcomm QCM6490 |
| Memory | 8 GB RAM 128 GB internal memory microSD memory up to 128 GB |
| Supported frequency bands | 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 |
| Dimensions | Size: 180,0 x 84,9 x 20,6 mm weight: 422 g |
| Display | 6" Gorilla Glass® 3rd generation 1080 x 2160 pixels FHD |
| Battery | 4400 mAh replaceable |
| Camera | 48 MP AF rear camera 5 MP FF front camera |
| SIM support | 1 nano SIM + eSIM |
| Connections | 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) |
| Ports in/out | 16-pin ISM interface USB-C |
| Sensors | Accelerometer, Gyroscope, Light, Magnetic, Proximity, Pressure sensors |
| Types of protection | IP68 dust-/waterproof MIL-STD-810H usable from -20 °C to +55 °C |



IS-VS1A.1 INSPECTION EQUIPMENT

TECHNICAL FEATURES MEASURING ELECTRONIC MODEL MVS1A01

| | |
|-----------------------|-------------------------------|
| Analog band width | 20 ... 500 kHz |
| Input range | 94 dBAE / 100 dBAE |
| Sampling rate | Res.: 2 MHz / 16 bit |
| Noise floor | <12 µVRMS (95 – 300 kHz) |
| Power consumption | <700 mW |
| Dimension | Size: 141,2 x 96,0 x 51,85 mm |
| Operating temperature | Usable from -20 °C to +55°C |



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

TECHNICAL FEATURES SENSORS

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



TECHNICAL FEATURES WAVEGUIDE

| | | |
|-------------------|-----------------------|--|
| IS-WGLF1.1 | Waveguide Lock | |
| Diameter | 55 mm | Waveguide Lock; fixation for sensor F1" indicates used sensor |
| Weight | 79,5 g | |
| IS-WGxx.1 | Waveguide | |
| Temperature range | > 120 °C and < -50 °C | |
| Dimension | 220 x 7 mm | |
| Weight | 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

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