

PRESS RELEASE

Seite 1 von 2

Constance, 15th June 2020

INGUN is a pioneer of 5G: Radio frequency test technology *Made in Germany*

INGUN plays a major role in the expansion of 5G: The reliable transmission of high-frequency signals and large amounts of data requires powerful test equipment for reliable, efficient contacting of electronic components.

5G, the fifth generation mobile communications standard, will shape the third decade of the 21st century: Numerous countries around the world have begun the technical implementation and the development of the infrastructure; the first devices equipped for 5G and data tariffs are already available. However, 5G will not only improve the user experience on PCs and smartphones; it also forms the basis for the further evolution of the automobile manufacture and industry - a higher degree of networking is emerging, connecting different aspects of life and enabling new digital business models.

Partner for Future Technology

As the world's leading company for testing technology, INGUN is the backbone of 5G future technology: Thanks to the worldwide presence and expertise in the radio frequency range, testing solutions from INGUN ensure reliable electronic parts and components in the automotive and mobile communication field (both devices and infrastructure such as antennas and base stations), as well as industrial automation. Test equipment for the lower frequency range (up to 6 GHz) is already part of INGUN's standard portfolio; for the upper frequency range (up to 28 GHz and higher) individual solutions are developed together with the customers.

Reliable contacting, even in the mmWave frequency spectrum

Radio frequency test probes (HFS) from INGUN are characterised by their high-precision fit for reliably stable contacting of the device under test. They offer excellent performance at high data rates as well as maximum signal quality, even in the mmWave frequency spectrum. The comprehensive portfolio is supplemented by the development of individualised test solutions, which can be very compact.

Reliable in-vehicle data transmission

Thanks to transmission rates of 10 Gbit/s and faster, as well as reduced latency, 5G meets the requirements for comprehensive infotainment in vehicles and for automated driving functions, including autonomous driving. This results in large amounts of data that must be transmitted quickly and reliably



PRESS RELEASE

in the vehicle. INGUN supplies suitable test technology for 5G connectivity, especially for testing plug connectors:

- The various **HFS-802** and **HFS-819** radio frequency test probes ensure efficient testing of H-MTD and HSD connectors for high data rates. The probes' freely movable bearing and an optional floating receptacle ensure optimum alignment on the connector under test.
- The **HFS-807** series provides the best radio frequency performance for testing miniature FAKRA connectors, the successors to the popular FAKRA series. These coaxial connectors can be modularly designed with single, double or quadruple housing.

High-level wireless function

INGUN test solutions not only ensure reliable data transfer to and from smart phones, but also guarantee the efficient continuous operation of base stations and other mobile communication equipment:

- The **HFS-856** is the cost-effective radio frequency probe for measurement, mobile communication and PCBs up to 12 GHz. It can be easily mounted using its flange and has a robust SMA cable interface.
- With the **HFS-801**, INGUN offers a specialised test probe for base station equipment which has a high quality SK cable interface and offers superb performance, especially at medium frequencies.

Miniaturisation: Reliability down to the smallest detail

With newly developed test probes for the most complex demands, INGUN often sets new standards in the market. In particular, these include high-performance, universal and variable solutions in the automotive and consumer electronics sectors.

- The **HFS-511** is characterised by consistently high RF performance over the lifetime of the device when testing new types of board-to-board connectors at up to 20 GHz. While the outstanding shielding reduces the influences on the signal, two-stage centring (first outside, then inside) achieves a particularly high-precision fit.
- The **HFS-890** is an all-round radio frequency probe which provides stable contacting of PCBs, even when space is limited. It is connected via the high-end SMPM interface and ensures stable performance up to the maximum frequency of the connectors.

INGUN already provides the test technology required to continue the 5G success story - more solutions for radio frequency ranges and specialised applications will follow, or may even currently be under development.

Find more information at: <https://ingun.com/en/5G>

INGUN Prüfmittelbau GmbH
Max-Stromeyer-Straße 162
78467 Konstanz
Germany
Tel. +49 7531 8105 - 0
Fax +49 7531 8105 - 65
info@ingun.com
www.ingun.com

Aufsichtsrat: Wolfgang Karl
Geschäftsführer: Armin Karl
Amtsgericht Freiburg HRB 380 773
USt-IdNr: DE 186 758 041

Sparkasse Bodensee
14 183, BLZ 690 500 01
IBAN: DE33 6905 0001 0000 0141 83
BIC: SOLADES1KNZ
Deutsche Bank Konstanz
2 009 900, BLZ 690 700 32
IBAN: DE74 6907 0032 0200 9900 00
BIC: DEUTDE6F690

Commerzbank Konstanz
600 276 600, BLZ 692 800 35
IBAN: DE11 6928 0035 0600 2766 00
BIC: DRES DE FF 692
Postbank Karlsruhe
150 330 750, BLZ 660 100 75
IBAN: DE89 6601 0075 0150 3307 50
BIC: PBNKDEFF

PRESS RELEASE

Seite 2 von 2

About INGUN

Since 1971, INGUN Pruefmittelbau GmbH has been the leading manufacturer of spring-loaded test probes and test fixtures for individual test requirements. Made in Germany quality forms the basis of INGUN's custom-made solutions, as production takes place exclusively at the headquarters in Constance, Germany on the banks of Lake Constance. With 41 of its own locations and international sales partners, INGUN also has a global sales and service structure in 68 countries.

With their comprehensive expertise and commitment to quality, INGUN makes an important contribution to the development of future-orientated technologies, such as 5G. They support customers from a wide variety of industries, such as automotive engineering, aviation & aerospace, telecommunications, and medical technology, in the reliable quality testing of their electronic products. As an experienced manufacturer and development partner, INGUN enables these customers to ensure excellent quality and reliable contacting.

Contact:

Jasmin Ott
Marketing Coordinator
Phone +49 7531 8105 738
E-Mail: jasmin.ott@de.ingun.com

Signs:
4.762

Attachement:

Image: <https://cloud.ingun.com:57001/sharing/blj94OIVp>



Description:

INGUN 5G Solutions

INGUN Pruefmittelbau GmbH
Max-Stromeyer-Straße 162
78467 Konstanz
Germany
Tel. +49 7531 8105 - 0
Fax +49 7531 8105 - 65
info@ingun.com
www.ingun.com

Aufsichtsrat: Wolfgang Karl
Geschäftsführer: Armin Karl
Amtsgericht Freiburg HRB 380 773
USt-IdNr: DE 186 758 041

Sparkasse Bodensee
14 183, BLZ 690 500 01
IBAN: DE33 6905 0001 0000 0141 83
BIC: SOLADES1KNZ
Deutsche Bank Konstanz
2 009 900, BLZ 690 700 32
IBAN: DE74 6907 0032 0200 9900 00
BIC: DEUTDE6F690

Commerzbank Konstanz
600 276 600, BLZ 692 800 35
IBAN: DE11 6928 0035 0600 2766 00
BIC: DRES DE FF 692
Postbank Karlsruhe
150 330 750, BLZ 660 100 75
IBAN: DE89 6601 0075 0150 3307 50
BIC: PBNKDEFF