

113 GHz – the individual solution for every application

When you add it all up, Endress+Hauser's complete line of radar instrumentation offers 113 GHz of measurement technology that allows customers to optimize their processes over the long term. No single guided wave or free space radar instrument in the 1 GHz to 80 GHz range is equally suitable for every field of application. That calls for selecting radar sensors that function reliably in application-specific conditions in liquids and bulk solids, while bearing up under tomorrow's cost rationales.

One example is the **Micropilot FMR6x free space radar instrument with 80 GHz technology**, which offers several advantages. By focusing the radar signal at a 3-degree angle, the mountings and obstacles have virtually no influence on the measurement value. The opportunity to use broadband signals with a measurement range of >0.5m for liquids and up to 125m for bulk solids makes it possible to optimally select the right sensor technology.

The guided wave and free space radar instruments offer further value add through their own pulse – or **Heartbeat Technology** as it is referred to. This technology helps to ensure cost-effective and safe operation of the system during the entire life cycle. Every measurement point can be verified and documented without removing the instrument and without interrupting the process. Heartbeat Technology monitors field devices and displays the process data, providing trend detection as a basis for predictive maintenance. This allows the early detection of deposit build-up, for instance, so that maintenance can be planned accordingly. Furthermore, users can save time and money through the intuitive user menu when carrying out verification or SIL-compliant repeat tests.

The entire range of guided wave and free space radar instruments supplies precise and reliable measurements under all relevant process and environmental conditions. The hardware and software are developed in line with IEC 61508 and can be used in environments up to SIL2/SIL3. Endress+Hauser thus guarantees the highest safety standards for industrial processes.



EH_113GHz.jpg

113 GHz – the right radar frequency for every situation



EH_Micropilot_FMR67.jpg

The Endress+Hauser Micropilot FMR67.

The Endress+Hauser Group

Endress+Hauser is a global leader in measurement instrumentation, services and solutions for industrial process engineering. The Group employs approximately 14,000 personnel across the globe, generating net sales of over 2.4 billion euros in 2018.

Structure

With dedicated sales centers and a strong network of partners, Endress+Hauser guarantees competent worldwide support. Our production centers in 12 countries meet customers' needs and requirements quickly and effectively. The Group is managed and coordinated by a holding company in Reinach, Switzerland. As a successful family-owned business, Endress+Hauser is set for continued independence and self-reliance.

Products

Endress+Hauser provides sensors, instruments, systems and services for level, flow, pressure and temperature measurement as well as analytics and data acquisition. The company supports customers with automation engineering, logistics and IT services and solutions. Our products set standards in quality and technology.

Industries

We work closely with the chemical, petrochemical, food & beverage, oil & gas, water & wastewater, power & energy, life science, primaries & metal, renewable energies, pulp & paper and shipbuilding industries. Endress+Hauser supports its customers in optimizing their processes in terms of reliability, safety, economic efficiency and environmental impact.

History

Founded in 1953 by Georg H Endress and Ludwig Hauser, Endress+Hauser has been solely owned by the Endress family since 1975. The Group has developed from a specialist in level measurement to a provider of complete solutions for industrial measuring technology and automation, with constant expansion into new territories and markets.

For further information, please visit www.endress.com/media-center or www.endress.com

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