

## MH-2: Compact. Versatile.

### Advantages at a glance:

- 500 g shock resistance
- 20 g vibration resistance
- Resistant to rapid temperature changes
- Optimized temperature performance from -40 to 257°F (-40 to 125°C)
- 100 V/m EMI protection
- Protection against pressure spikes, cavitation, and micro-diesel effects
- Cable option provides high pressure steam washdown protection to IP 69k
- Completely welded stainless-steel thin film sensor cell
- Compact size



## WIKA – Your partner for pressure and temperature measurement

- OEM-specific designs for pressure and temperature measurement
- Professional, experienced design assistance
- Access to over 50 engineers supports innovative custom designs
- Extensive experience with automated production techniques
- Reliable delivery of high quality instruments
- Certified according to ISO 9001:2000 and ISO/TS 16949
- Fast delivery with competitive pricing
- Global support network



For over 50 years the WIKA name has stood for quality and innovation in pressure and temperature measurement. Over 4,000 employees worldwide are committed to meeting the highest quality standards to insure WIKA maintains its position as the number one manufacturer of pressure and temperature instruments worldwide.

A global network of subsidiaries in over 27 countries provides a framework for worldwide support.

"Part of your business" – This guiding principle is directed towards our fundamental philosophy to develop close business relationships with our customers in order to achieve common goals. WIKA pursues this philosophy every day.

## Reliable pressure transmitters for mobile hydraulic applications For the toughest conditions



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# Robust technology. Solid advantages.

## Pressure transmitters for mobile hydraulics.

WIKA manufactures three leading sensor technologies. The MH-2 incorporates thin film technology to provide the best performance under the most demanding operating conditions. Excellent resistance to shock, vibration and pressure spikes, in addition to high performance temperature compensation, makes the MH-2 the transmitter of choice for a wide range of applications.

### Typical applications:

- Excavators
- Cranes
- Forklifts
- Construction equipment
- Agricultural machinery
- Forestry machinery
- Hydraulic units
- Gas-powered vehicles



### Long-term stability and leak resistance

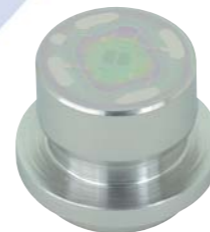
The WIKA sputtered thin film manufacturing process optimizes sensor performance. During this process, the insulating and resistive layers are applied and become atomically bonded to the diaphragm to define the bridge pattern. This molecular bonding provides added integrity and long-term stability to the sensor. The sensor is then welded to the process connection. This provides long-term leak resistance because no soft sealing materials or O-rings are used in the sensor cell or are exposed to the process media.

### Optimized temperature performance

The MH-2 thin film sensor incorporates resistors on the bridge element to compensate for temperature changes. Even at temperature extremes from -40°F (-40°C) to +257°F (125°C) the temperature effect on the output signal is held to a minimum.

### Resistance to pressure spikes

The WIKA metal thin film sensor technology provides extremely high resistance to dynamic pressure spikes. The MH-2 process connection includes an integrated pressure damping system for additional sensor protection.



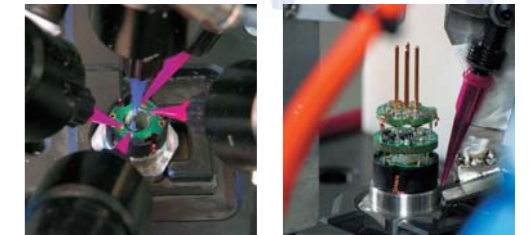
# MH-2 pressure transmitter: Performance through innovative production technologies

The MH-2 production concept is designed to meet OEM requirements. Reliable, on-time delivery of quality products is assured by the fully automated production line with a capacity of more than 800,000 instruments per year.



### Customer-specific designs

The MH-2 is available with a wide range of process and electrical connections, pressure ranges and output signals. In addition, WIKA can design and manufacture custom designs to meet specific OEM requirements. Do not hesitate to contact WIKA for professional, experienced design assistance!



### Highest standards for quality

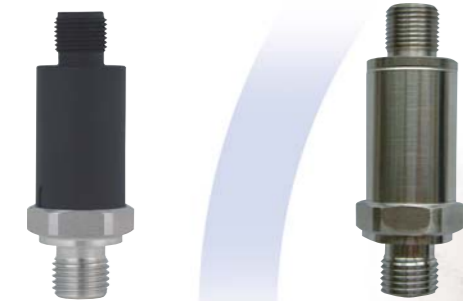
100% quality control, combined with manufacturing processes that are certified according to ISO/TS 16949, guarantee the highest reliability and quality of the MH-2.



Each stage of the fully automated production line assures quality down to the smallest detail.

### High performance, low cost.

Sophisticated production techniques provide a high quality pressure transmitter at a competitive price.



### Shock and vibration resistance

The MH-2 delivers shock resistance to 500 g. For comparison, a car driving into a tree at 60 mph produces a shock load of up to 100 g. In addition, the MH-2 provides impressive vibration resistance. For example, a jet aircraft engine produces a vibration of up to 10 g during takeoff. The MH-2 remains unshaken when exposed to vibration up to 20 g's, even under resonant conditions.

