Digitalised safety  
with new diaphragm seal system

Klingenberg, June 2021. The requirements of digitalised sterile processes are met by a new diaphragm seal system from WIKA with process transmitter, diaphragm monitoring and HART®7 protocol. The model DMSU21SA has approvals for all common hygiene standards and is available in a version with explosion protection.

The complete measuring arrangement is parameterised via a single cable outlet and HART®7. The communication protocol transmits the measured values as well as the alarm signal from the diaphragm monitoring. The patented safety function is based on a double diaphragm with evacuated intermediate space and a pressure switch. In the event of a rupture of the process-side diaphragm, the switch sends an immediate damage message while the second diaphragm continues to monitor the pressure.

The new diaphragm seal system measures pressures between -1 bar and 25 bar with an accuracy of 0.1 % of span. The model DMSU21SA is available with all sterile connections and the application-specific system fill fluids.

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**Manufacturer:**

WIKA Alexander Wiegand SE & Co. KG

Alexander-Wiegand-Straße 30

63911 Klingenberg/Germany

Tel. +49 9372 132-0

Fax +49 9372 132-406

vertrieb@wika.com

[www.wika.de](http://www.wika.de/)

**WIKA company photograph:**

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**Model: DMSU21SA**

**Edited by:**

WIKA Alexander Wiegand SE & Co. KG

André Habel Nunes

Marketing Services

Alexander-Wiegand-Straße 30

63911 Klingenberg/Germany

Tel. +49 9372 132-8010

Fax +49 9372 132-8008010

andre.habel-nunes@wika.com

[www.wika.de](http://www.wika.de/)

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