

# HART Multiplexer Slave KFD0-HMS-16

- 16-channel
- No external power required
- HART field device input (revision 5 to 7)
- Used with HART Multiplexer Master KFD2-HMM-16
- Up to SIL 3 acc. to IEC/EN 61508

### **HART Multiplexer Slave**



#### **Function**

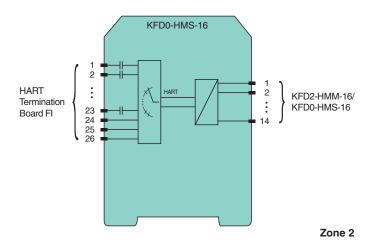
This HART Multiplexer Slave operates up to 16 analog field instruments. It can be operated only with the HART Multiplexer Master KFD2-HMM-16 and is powered by the master across a 14- pin flat cable connection. Up to 15 slaves can be connected to the master.

The slave address is set with a 16- position rotary switch (addresses 1 ... 16). If only one slave is connected to the master, then the slave address should be 1. If multiple slaves are connected, slaves must be assigned addresses in ascending order.

The analog signals are fed into the slave by means of a 26-pin flat cable. Sixteen leads are reserved for the HART signal of the analog

measurement circuits. The remaining 10 leads are assigned to ground.

#### Connection



### **Technical Data**

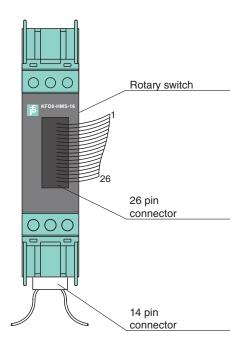
Functional safety related parameters	
Safety Integrity Level (SIL)	SIL 3
Supply	
Connection	via 14-channel flat cable form master KFD2-HMM-16
HART signal channels (non-intrinsically safe)	
Conformity	HART field device input (revision 5 to 7)
Connection	26-pin flat cable for analog connections 14-pin flat cable for master-slave connection between KFD2-HMM-16 and KFD0-HMS-16
Leakage current	< 3 μA at -20 85 °C (-4 185 °F)

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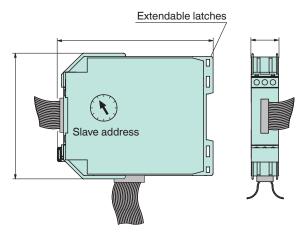
Terminating resistor external 230 500 Ω standard (up to 1000 Ω possible)  Output voltage ≥ 400 mV ss (with the terminator resistance specified above)  Output resistance 100 Ω or smaller, capacitive coupling  Input impedance according to HART specification  Input voltage range 0.08 4 V ss; typ. ± 5.2 V as local reference  Indicators/settings  Labeling space for labeling at the front  Directive conformity  Electromagnetic compatibility Directive 2014/30/EU EN 61326-1:2013 (industrial locations)  Conformity  Degree of protection IEC 60529:2001  Ambient conditions  Ambient temperature -20 65 °C (-4 149 °F)  Mechanical specifications  Degree of protection IP20  Mass approx. 100 g  Dimensions 20 x 93 x 115 mm (0.8 x 3.7 x 4.5 inch) (W x H x D) , housing type B1  Mounting on 35 mm DIN mounting rail acc. to EN 60715:2001  Data for application in connection with hazardous areas  Certificate PF 07 CERT 1143 X  Marking ⊕ II 3G Ex n A IIC T4 Gc  Directive 2014/34/FU EN 60079-0:2012+A11:2013. EN 60079-15:2010	Technical Data	
Output voltage       ≥ 400 mV ss (with the terminator resistance specified above)         Output resistance       100 Ω or smaller, capacitive coupling         Input impedance       according to HART specification         Input voltage range       0.08 4 V ss; typ. ± 5.2 V as local reference         Indicators/settings       Labeling         Labeling       space for labeling at the front         Directive conformity         Electromagnetic compatibility       Directive 2014/30/EU       EN 61326-1:2013 (industrial locations)         Conformity       Degree of protection       IEC 60529:2001         Ambient conditions       Ambient temperature       -20 65 °C (-4 149 °F)         Mechanical specifications       Degree of protection       IP20         Mass       approx. 100 g         Dimensions       20 x 93 x 115 mm (0.8 x 3.7 x 4.5 inch) (W x H x D) , housing type B1         Mounting       on 35 mm DIN mounting rail acc. to EN 60715:2001         Data for application in connection with hazardous areas         Certificate       PF 07 CERT 1143 X         Marking       ® II 3G Ex nA IIC T4 Gc	Terminating resistor	external 230 500 $\Omega$ standard (up to 1000 $\Omega$ possible)
Input impedance according to HART specification Input voltage range 0.08 4 V ss; typ. ± 5.2 V as local reference  Indicators/settings  Labeling space for labeling at the front  Directive conformity  Electromagnetic compatibility Directive 2014/30/EU EN 61326-1:2013 (industrial locations)  Conformity  Degree of protection IEC 60529:2001  Ambient conditions  Ambient temperature -20 65 °C (-4 149 °F)  Mechanical specifications  Degree of protection IP20  Mass approx. 100 g  Dimensions 20 x 93 x 115 mm (0.8 x 3.7 x 4.5 inch) (W x H x D) , housing type B1  Mounting on 35 mm DIN mounting rail acc. to EN 60715:2001  Data for application in connection with hazardous areas  Certificate PF 07 CERT 1143 X  Marking © II 3G Ex nA IIC T4 Gc  Directive conformity	· ·	, , , ,
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General information	General information	
Supplementary information  Observe the certificates, declarations of conformity, instruction manuals, and manuals, where applicable. For information see www.pepperl-fuchs.com.	Supplementary information	Observe the certificates, declarations of conformity, instruction manuals, and manuals where applicable. For information see www.pepperl-fuchs.com.

## **Assembly**

#### Front view



#### **Dimensions**



## **Matching System Components**

PACTusare*	PACTware 5.X	FDT Framework
<u>O</u> gen	DTM Generic HART	Device type manager (DTM) for HART communication
<u>O</u>	DTM HART Comm	Device type manager (DTM) for HART communication
<u>O</u> gw	DTM HART Multiplexer	Device type manager (DTM) for HART communication
man in	K-HM14	HART connection cable for master - slave connection
es.	K-HM26	HART connection cable for master/slave - termination board connection
1	KFD2-HMM-16	HART Multiplexer Master