

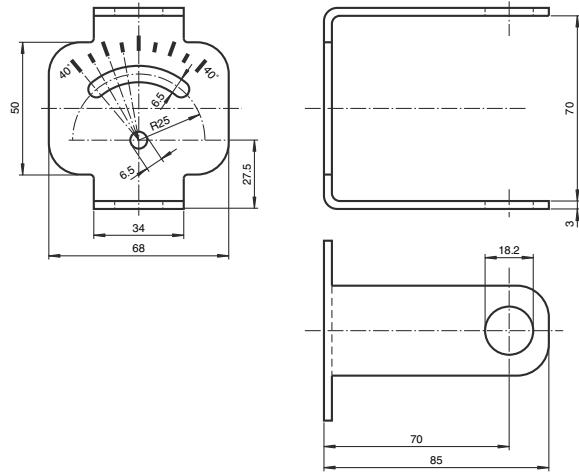
Accessories for Ultrasonic Sensors

MH-UDB01



Pivotable mounting bracket with angle scale for ultrasonic double-sheet monitors

Material: Stainless steel



Accessories for Ultrasonic Sensors

UC-30GM-TEMP



External temperature probe

- For ultrasonic sensors of the UC...-30GM-... and LUC4T-... series
- 8 mm plug connector
- Single-hole mounting with position locking

LUC4-Z30-G2V LUC4-Z30-N2V



External temperature probe

- For ultrasonic level sensors of the LUC4T-... and UC...-30GM-... series
- 8 mm plug connector.
- Single hole mounting in thread:
G $\frac{1}{2}$ A (LUC4-Z30-G2V)
 $\frac{1}{2}$ NPT (LUC4-Z30-N2V).

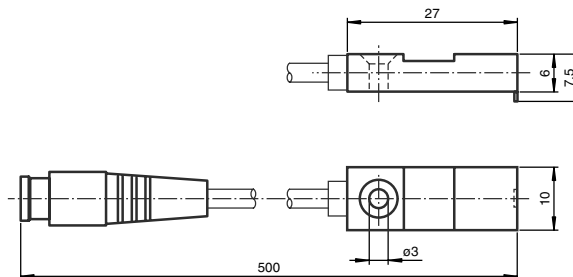
FP100



Remote potentiometer

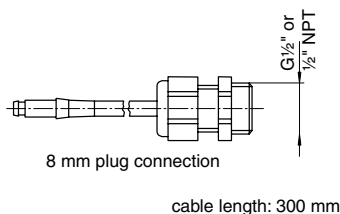
Potentiometer for the adjustment of the sensing range of the ultrasound thru-beam sensor
UBE4000-30GM-SA2-V15.

The potentiometer connection is on the transmitter.



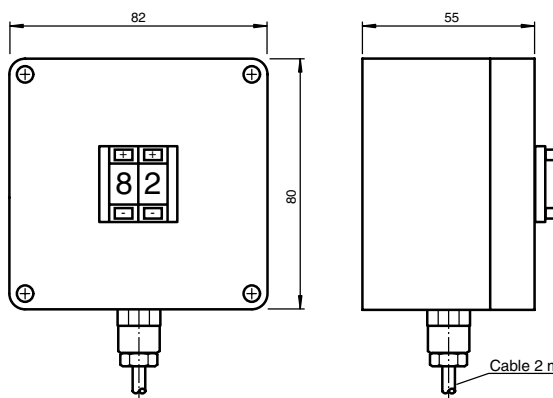
The external UC-30GM-TEMP temperature probe may be connected to ultrasonic sensors of the UC...-30GM-... and LUC4T-... series as an alternative to the supplied temperature plug.

The use of the UC-30GM-TEMP permits the ambient temperature of the measuring area to be monitored independently of the installation conditions of the sensor in order to minimize temperature influences as effectively as possible.



The external LUC4-Z30-G2V (with G $\frac{1}{2}$ A thread) or LUC4-Z30-N2V (with $\frac{1}{2}$ NPT thread) temperature probes may be connected to ultrasonic sensors of the LUC4T-... and UC...-30GM-... series as an alternative to the supplied temperature plug.

The use of the LUC4-Z30-... permits the ambient temperature of the measuring area to be monitored independently of the installation conditions of the sensor in order to minimize temperature influences as effectively as possible.



Subject to modifications without notice

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SENSING YOUR NEEDS

Accessories for Ultrasonic Sensors

USB-0.8M-PVC ABG-SUBD9



Interface adapter USB/RS_232

Modern notebooks and PCs are often not equipped with a standard RS 232 serial interface.

Anyhow, to allow the use of the multiple functions of the service program ULTRA 3000, the interface adapter USB-0,8M-PVC ABG-SUBD9 offers a simple solution.

The interface converter USB-0.8M-PVC ABG-SUBD9 provides a RS 232 serial interface at a free USB port.

It can be connected to the USB port either directly or via the 800 mm USB cord, which is included.

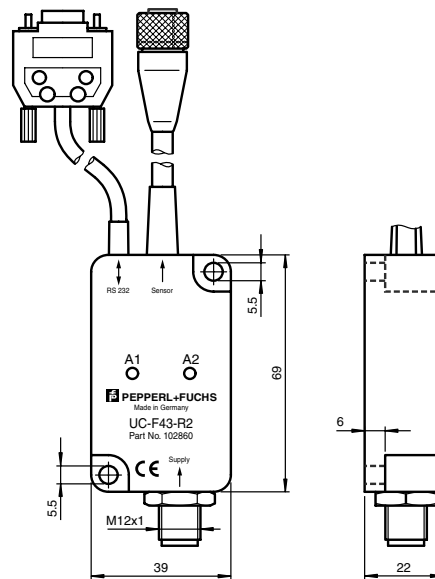
Our interface cables can be connected to the 9-pin Sub-D connector in the accustomed way.

UC-F43-R2



RS 232 interface

- For sensors UC300-F43-2KIR2-V17 and UC2000-F43-2KIR2-V17.
- Easy insertion into the sensor connection lead.



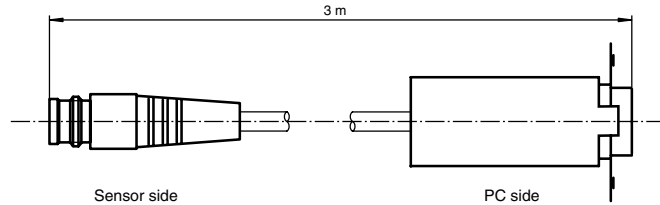
The unit can be inserted between the V17 cable connection socket and the V17 plug connection on the sensor for the TEACH-IN procedure. The programmed functions are retained when the programming unit is removed and/or the power is switched off.

Accessories for Ultrasonic Sensors

UC-30GM-R2



Interface cable

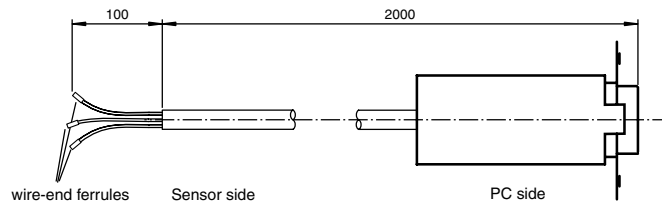


The UC-30GM-R2 interface cable enables the programming of the UC...-30GM-..R2-V15 ultrasonic sensors using the ULTRA 2001 software. The cable creates a connection between the PC's RS 232 interface and the connector of the temperature/programming plug on the sensor.

UC-FP/U9-R2



Interface cable

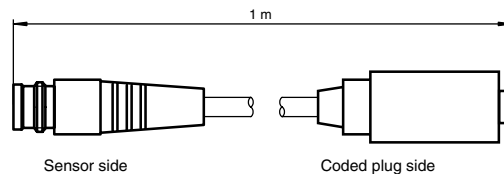


The UC-FP/U9-R2 interface cable enables the programming of limit switch and FP series ultrasonic sensors using the ULTRA 2001 software. The cable creates a connection between the PC's RS 232 interface and the interface connections in the terminal space of the sensor.

UC-30GM-PROG



Extension cable



The UC-30GM-PROG extension cable permits the UC...-30GM-... and LUC... series sensors to be taught-in at inaccessible installation locations. The sensor side end of the extension cable is connected to the sensor's temperature plug socket. The sensor can be programmed with the temperature plug at the other end of the cable.

Accessories for Ultrasonic Sensors

UB-PROG2



Programming device

- For ultrasonic sensors

UB300			
UB400	-12GM		
UB500	-18GM40	-E4	
UB800	-18GM75	-E5	
UB1000	-30GM	-I	-V15
UB2000	-F42(S)	-U	
UB4000	-F54		
UB6000			

... whose teach-in input is on pin 2.

- Easy teach-in of the switching points A1/A2 or the measuring window.
- Easy selection of the output function: Window mode, NO/NC function. One switching point, NO/NC function. Monitoring of the detection range.

UB-PROG3



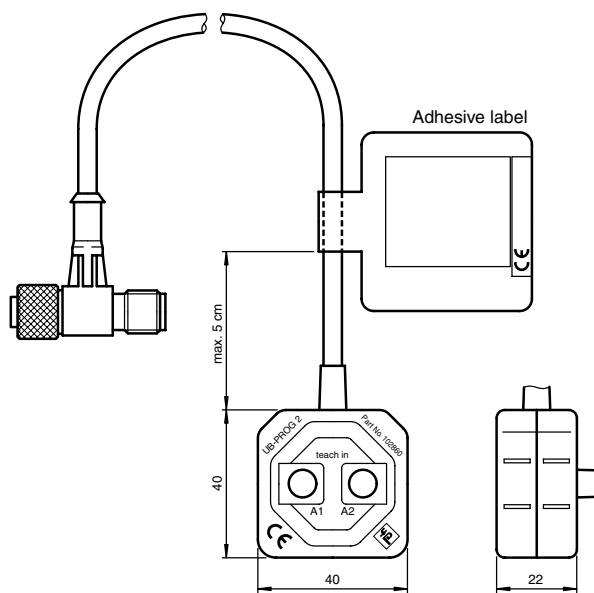
Programming device

- For ultrasonic sensors

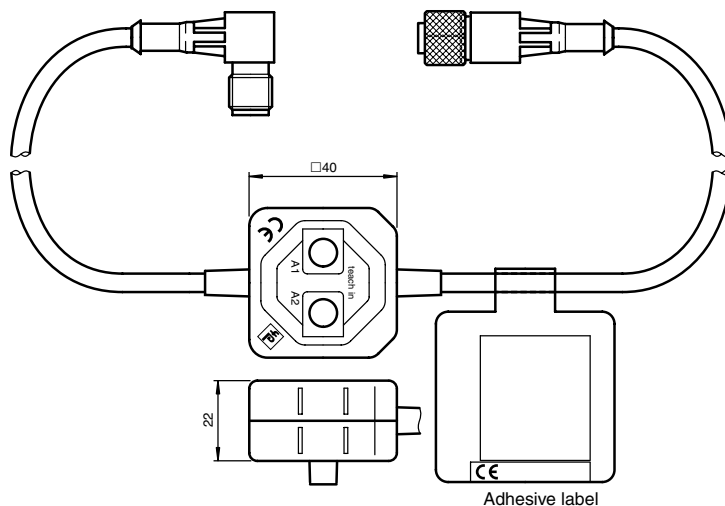
UB500		-E01	
UB1000	-18GM75	-E23	-V15
		-E6	
		-E7	

... whose teach-in input is on pin 5.

- Easy teach-in of the switching points A1/A2 or the measuring window.
- Easy selection of the output function: Window mode, NO/NC function. One switching point, NO/NC function. Monitoring of the detection range.



The unit can be switched from the V15 cable connection socket and the V15 plug connection on the sensor for the TEACH-IN procedure. The switch points/measuring window and output function can be taught in using the A1 and A2 buttons. The taught-in switch points and functions are retained when the programming unit is removed and/or the power is switched off.



The unit can be switched from the V15 cable connection socket and the V15 plug connection on the sensor for the TEACH-IN procedure. The switch points/measuring window and output function can be taught in using the A1 and A2 buttons. The taught-in switch points and functions are retained when the programming unit is removed and/or the power is switched off.

Accessories for Ultrasonic Sensors

ULTRA 3000



Service program

- WINDOWS™ user interface with up to 5 independent windows.
- For all ultrasonic sensors with RS 232 interface.
- Convenient parameterization of all relevant sensor functions, such as:
 - evaluation method
 - switching behavior
 - switch points
 - analog output
 - measuring window
 - filter functions
 - fault management
 - etc.
- to optimally adapt the sensor to its current application.
- Logging functions for sensor parameter settings and recorded series of measurements.

Software and manual download:

<http://www.pepperl-fuchs.com>

Procedure:

- select the Factory Automation business unit.
- click Downloads.
- type **ULTRA3000** into the Product Search field
- select the desired download
- click the link to the file with the extension .zip to download the ULTRA3000 software.

Use the appropriate interface or interface cable for the communication between the PC and sensor

Why use PC software for parameterization?

Commands and parameters can be transferred to sensors via an RS 232 interface, if present. These commands can be used to output measured values, configure the evaluation process, switch outputs and/or analog output, set and query parameters, and control the general unit functions. This provides the user with an aid in optimally adapting the sensor to its specific application and visualizing parameters or measured results.

Programmable sensors

Series:

-30GM	UC...-30GM-..R2-V15
Limit switch	UC...+U9+E6/E7+R2 and UC...+U9+IUE0/E2+R2
	UJ3000+U1+...+RS
-FP	UC6000-FP-...-R2-P5 and UJ6000-FP-...+RS
-F43	UC...-F43-2KIR2-V17

Brief description

The program features a multilingual, menu-based user interface with comprehensive help. It supports up to 5 independent windows. The windows can be displayed or hidden, and their size and position on the screen can be adjusted as needed. The size and position of the windows is retained by the program.

Show It: Graphical display of the measured distance. The set switch points are marked. Simulated LEDs display the switching states of the outputs.

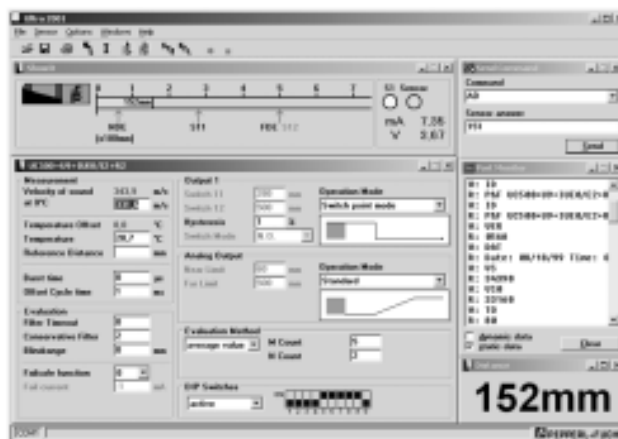
Parameters: All parameters can be edited here. Display and input fields permit commands or parameters to be changed at the click of the mouse without detailed knowledge of the relevant commands or their syntax.

Send command: Sensor parameters are set and queried here in the same manner as with a terminal program (alternative to the programming window).

Port Monitor: Display of the commands sent to the sensor and received from it.

Distance: Display of the currently measured distance in mm.

The program and sensor parameters read out by the program can be saved to the hard drive or a disk. Measurement series can be started, the measurement data queried periodically and sent to a printer or saved to the hard drive/disk.



System requirements

The Ultra 3000 application will run on any PC or laptop. Windows 95/98/ME/NT4/2000 or XP, an EGA or VGA graphics card, and an available RS 232 or USB port are required.

Accessories for Ultrasonic Sensors

Ultrasonic Right Angle Deflectors

By deflecting the ultrasonic beam 90° from the sensing plane, right angle deflectors allow low profile mounting of 18 mm or 30 mm diameter ultrasonic sensors on tanks, conveyors etc.

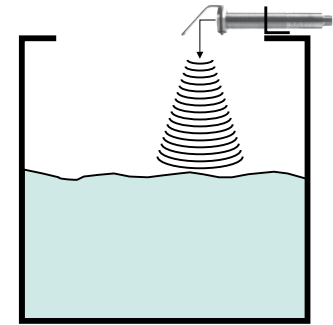
Sensor Diameter	Model Number	Material
12 mm	UVW90-M12	Stainless steel
18 mm	UVW90-K18	Plastic
30 mm	UVW90-K30	Plastic
30 mm	UVW90-M30	Stainless steel



UVW90-K30
UVW90-K18

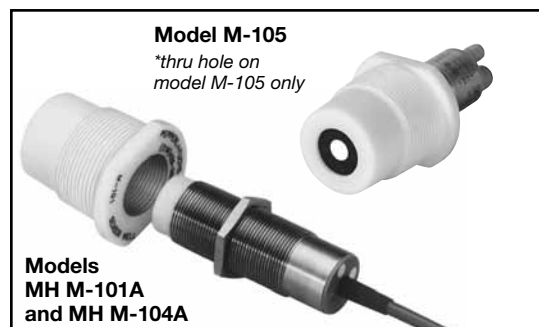


UVW90-M30
UVW90-M12

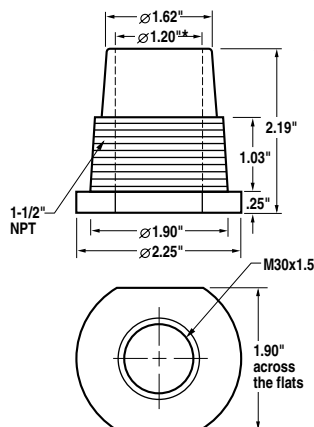


Mounting Flanges and Sensor Wells

Use of MH M-101A and MH M-104A wells keeps tanks sealed if sensor is removed.



Sensor Diameter	Model Number	Material
30 mm Delrin	MH M-101A	Closed end
30 mm Teflon	MH M-104A	Closed end
30 mm Teflon (for ultrasonic)	M-105	Open end



*thru hole on model M-105 only

Dimensions in inches (unless otherwise specified)

Swivel Type Mounting Bracket

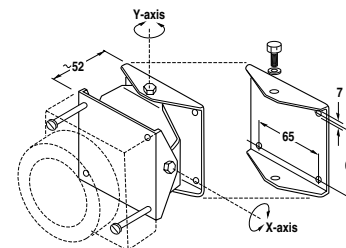
After mounting, this bracket can be adjusted in both directions.

To order specify model number **MH4-3505**.

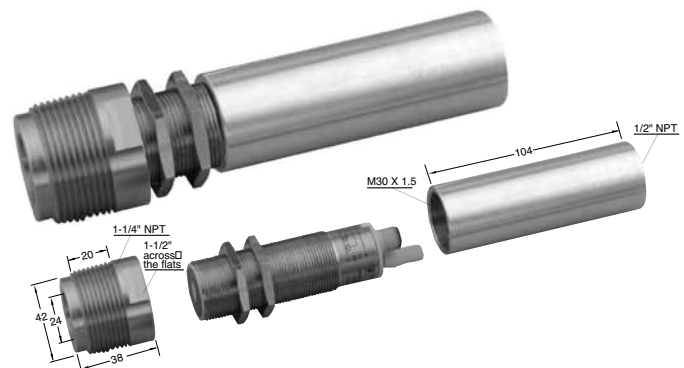
Model No.
MH4-3505



Dimensions in mm (unless otherwise specified)



Conduit Adapter and Mounting Flange for 30 mm Diameter Ultrasonic Sensors



Stainless steel Mounting Flange

Model No.
M-106

1/2" NPT Aluminum Conduit Adapter

Model No.
M30X1/2" NPT-ultra