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Acuity® AR700 Ordering Guide

AR700 Sensor Part Number Information

AR700

Table with 2 columns: Part# and Description. It lists various AR700 sensor models such as AR700-0125, AR700-0250, AR700-0500, AR700-1, AR700-2, AR700-4, AR700-6, AR700-8, AR700-12, AR700-16, AR700-24, AR700-32, and AR700-50, along with their specifications like span, laser power, and case size.

Acuity® AR700 Ordering Guide

AR700 Accessory Part Number Information

AR700 (Continued)

Part#	Description
AR700 Connectivity Kits	
AQ7000001	Connectivity Kit w/DB9 Serial Cable for AR700 with Class 2, 3R Lasers – US Plug
AQ7000002	Connectivity Kit w/DB9 Serial Cable for AR700 with Class 2, 3R Lasers – EU Plug
AQ7000005	Connectivity Kit w/Serial to USB Adapter for AR700 with Class 2, 3R Lasers – US Plug
AQ7000006	Connectivity Kit w/Serial to USB Adapter for AR700 with Class 2, 3R Lasers – EU Plug
AQ7000008	Connectivity Kit w/DB9 Serial Cable for AR700 with Single Point Thickness 100V-240V US Connectivity Kit – US Plug
AR700 Touch Panel Display	
AQ9900008	Touch Panel Display – 8" Screen
AR700 Cables*	
CBA700205	AR700 Cable Assembly 5M Quick Disconnect, Straight Connector, Flying Leads
CBA700210	AR700 Cable Assembly 10M Quick Disconnect, Straight Connector, Flying Leads
CBA700305	AR700 Cable Assembly 5M Quick Disconnect, Right Angle Connector, Flying Leads
CBA700310	AR700 Cable Assembly 10M Quick Disconnect, Right Angle Connector, Flying Leads

* Cables need to be selected and included in your order.

Ordering Descriptions

Bandpass Filter: Internally installed. Suggested for outdoor applications or when measuring to bright or radiating targets.

Higher Laser Power: Diode upgrades to visible red 20mW (660 nm, Class 3B) for high sample rates on dark surfaces or in high ambient light.

Road Profiling Option: Package for AR700-6 or -8. Includes specialized optics, upgraded diode, bandpass filter and signal processing firmware optimized for use in high-speed longitudinal road surface profiling.

Cables: AR700 cables must be ordered separately from the sensor. For custom cable requirements, please let us know.

Connectivity Kits: Acuity sells a connectivity kit to aid in connecting your laser to a power supply and serial port. This product includes a 120V, 15 VDC, AC power supply; a serial cable with DB9 connector; and a solid-state, NEMA-4X interface box. The interface box includes two sets of terminal blocks for simple input (from sensor) and output (to your selected device), a DB9 male serial connector out, and a barrel style power connector in. You can either pass through the wiring to another unterminated cable, connect a DB9 serial cable directly to the interface box, or both at the same time.

- AQ7000001** – 120 V version with an US-style plug
- AQ7000002** – 240 V version with a European-style plug
- AQ7000005** – w/ serial to USB cable for ease of connection into industrial computers - US plug
- AQ7000006** – w/ serial to USB cable for ease of connection into industrial computers - Euro plug
- AQ7000008** – special connectivity kit with logic to use AR700 triggers to synchronize two AR700s for single point thickness measurement – US plug

Touch Panel Display (AQ9900008): Stand-alone terminal interface for use with Acuity laser distance sensors. These fully enclosed units replace panel meters, alphanumeric displays, and analog controllers by providing a modern interface through a full-color LCD and touch screen. The Touch Panel Display communicates with one to six Acuity sensors or using RS-232 serial interfaces. The touch panel can be easily configured using on-screen buttons to display, scale, and even graph the sensors' distance outputs. Relative dimensions can be measured using a tare function. With two Acuity sensors, the touch panel can serve as a thickness gauge. Limits can be programmed into the touch panel to give a visual warning to operators that the target is too close or too far or too thick or too thin. With a USB flash drive, measurements can be logged and saved for further analysis.