

Acuity® AR500 Ordering Guide

AR500 Part Number Information

AR500

Part# Description

AP5WXYZZZ AR500 ordering notes

See the AR500 data sheet for model specifications.
 Not all laser diodes are available/recommended for all measurement ranges.
 Sensors with air jacket require re-calibration for use if air jacket is removed.
 Splash guard option available (must be factory installed)
 Please verify part number and price with Acuity Sales prior to issuing a PO

W= 1 for RS232 and 4-20mA
 W= 2 for RS232 and 0-10V
 W= 3 for RS485 and 4-20mA
 W= 4 for RS485 and 0-10V
 W= 5 for Ethernet, RS232 and 4-20mA

X= 1 for RED laser, Class 2
 X= 2 for RED laser, Class 3R
 X= 3 for RED laser, Class 3B
 X= 4 for BLUE laser, Class 2
 X= 5 for BLUE laser, Class 3R
 X= 6 for BLUE laser, Class 3B
 X= 7 for IR laser, Class 3B

Y= 0 for no option
 Y= 1 for internal heater (special order)
 Y= 2 for Air Jacket
 Y= 4 for Splash Guard (must be factory installed)

ZZZ= 005 for 5mm range
 ZZZ= 010 for 10mm range
 ZZZ= 025 for 25mm range
 ZZZ= 050 for 50mm range
 ZZZ= 100 for 100mm range
 ZZZ= 250 for 250mm range
 ZZZ= 500 for 500mm range
 ZZZ= 750 for 750mm range
 ZZZ= 110 for 1000mm range

Example part number: **AP5114025** – AR500 red laser, 25 mm Range, 4-20mA, RS-232, Splash Guard Option, 5-meter cable

AR500 Accessory Ordering Notes

AR500 Connectivity Kits	
AQ7000001	Connectivity Kit – US Plug
AQ7000002	Connectivity Kit – EU Plug
AQ7000005	Connectivity Kit – US Plug (w/ serial to USB adapter)
AQ7000006	Connectivity Kit – EU Plug (w/ serial to USB adapter)

AR500 Touch Panel Display	
AQ9900008	Touch Panel Display – 8" Screen, Linux

See page 2 for ordering descriptions.

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Ordering Descriptions

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 a 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

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 up to 6 Acuity sensors 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 paired together, 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.

Cables: AR500 sensors come standard with 2m cable length. Sensors with the Ethernet communication option comes standard with two 2m cables. Different cable lengths are available upon request.