

Acuity® AR 500 Part Number Guide

AR500

AP5WXYZZZ AR500 ordering notes

See the AR500 data sheet for model specifications.

All sensors standard with 2m cables. Ethernet sensors include two cables.

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.

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 (serial to USB)
AQ7000006 Connectivity Kit – EU Plug (serial to USB)

AR500 Touch Panel Display

AQ9900008 Touch Panel Display – 8" Screen, Linux

*See page 2 for ordering descriptions



Productivity through Precision®

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Accessory Ordering Guide

Splash Guard: Open-sided enclosure to keep the sensor's optical windows free of dirt, oil and debris to maintaining accurate measurements. This hardware bolts on to the front of the AR500 and creates a "tunnel" for the optical path, preventing indirect splatter from airborne contaminants.

Internal Heater: The optionally-installed heater expands the operating temperature to -30°C.

Air Jacket: Designed to be used in harsher environments with higher ambient temperature or airborne particles. Enclosure with forced air to cool sensor for use up to 120°C. Sensor must be calibrated inside jacket at factory.

High power lasers: Diode upgrades to visible red or blue for high sample rates on dark surfaces or in high ambient light.

Cables: Optional, longer cables. Contact us for custom cabling needs.

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

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.