



## EngineWatch® Oil Condition Monitoring Sensor and Data Acquisition Unit



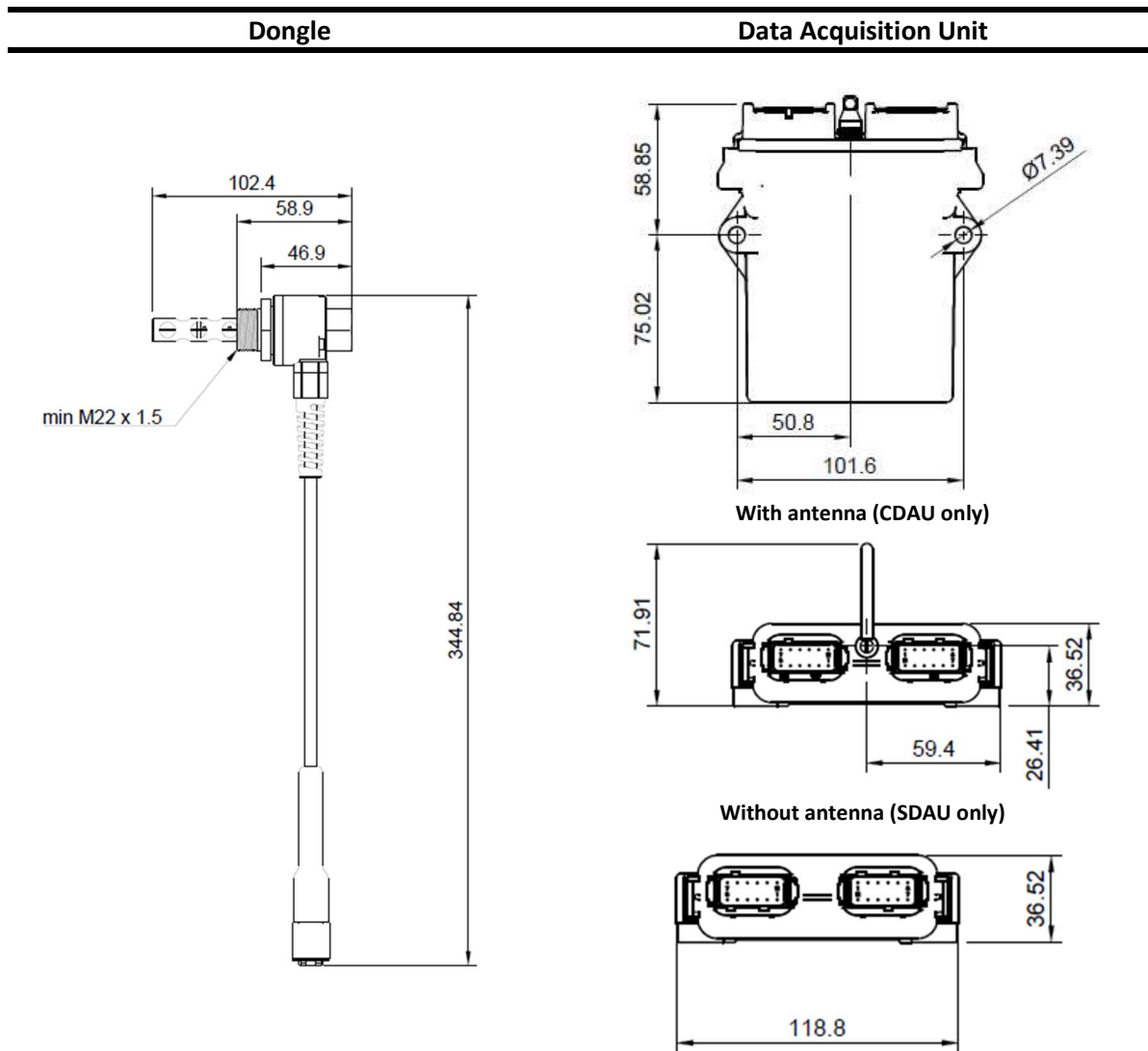
### Technical data:

<b>Measurements<sup>1</sup></b>	
Polarity	0-255 (unitless)
Conductivity	0-255 (unitless)
Total water	Minimum 0.5% total concentration
Temperature	0 - 150 °C
Fuel contamination (aromatic hydrocarbon)	Pass-fail set at 2% contamination of fuel in oil
Oxidation	Defined empirically <sup>2</sup>
Measurement interval	Adjustable, minimum frequency of 250 seconds
<b>Data output</b>	
Modbus RTU over RS485	SDAU version only
CAN bus	SDAU version only
Cellular (HTTPS)	CDAU version only
Cellular (MQTT)	CDAU version only
<b>Environmental conditions</b>	
Normal operating temperature range	+20 to +150 °C
Ambient operating temperature range	-20 to +70 °C
Fluid compatibility	Suitable for all engine oils Suitable for cold started equipment
Protection class	IP 67
<b>Other data</b>	
Supply voltage	12 to 24 VDC
Current consumption without outputs	~100 mA
Mechanical connection options	M22 x 1.5 (metric); ¾" (BSPP); ½" (NPT)
Dongle material	304 SS
DAU material	PA66 GF 15

<sup>1</sup> Oil Advantage utilizes a novel scale of 0-255 for polarity and conductivity readings. The scale is intended to monitor relative changes in oil condition working of a known baseline in a clean oil.

<sup>2</sup> Oil Advantage works with customers to empirically determine oil oxidation based on Polarity measurements

Dimensions:



Product codes

EW-XDAU-XX-V0X

S = Serial wired connectivity  
 C = Cellular wireless connectivity

MB = Modbus RTU over RS485 (SDAU - serial device only)  
 CB = CAN bus (SDAU - serial device only)  
 MT = MQTT over cellular (CDAU cellular device only)  
 HT = HTTPS over cellular (CDAU cellular device only)

1 = Product hardware version