



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



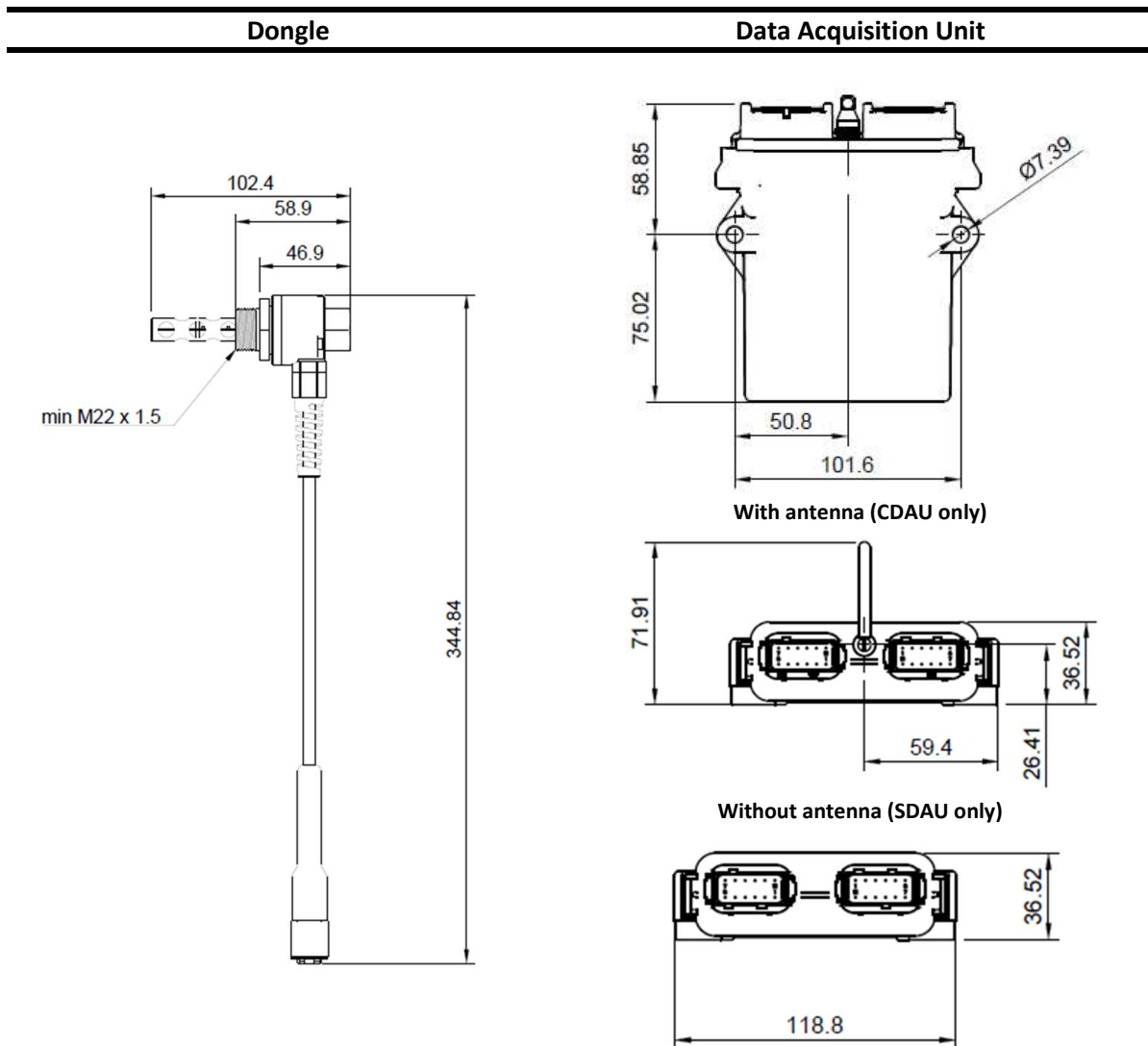
### Technical data:

<b>Measurements<sup>1</sup></b>	
Polarity	0-255 (unitless)
Conductivity	0-255 (unitless)
Relative Humidity	0-100 % Saturation
Temperature	0 - 150 °C
Total Acid Number (TAN)	Set point adjustable <sup>2</sup>
Wear Metals	Set point adjustable
<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 +80 °C
Ambient operating temperature range	-20 to +70 °C
Fluid compatibility	Suitable for hydraulic and lubrication 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
DAU mounting style	Screw mount

<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 off a known baseline in a clean oil.

<sup>2</sup> Oil Advantage works with customers to empirically define setpoints specific to their operations

## Dimensions:



## Product codes

MW-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