

September 29, 2022

Subject: ARS-14 and Dynapak 14 Product Obsolescence Notice

The angular rate sensor product line continues to be a key technology for many of our customers. BlueHalo is excited to announce that we have recently completed qualification of the ARS-16 angular rate sensor, which will serve as a replacement for the ARS-14. The ARS-16 (**Figure 1**) is an improved performance, nearly identical form/fit replacement for the ARS-14. A Dynapak 16 (**Figure 1**) is available with improved performance, smaller size, and lower mass than the Dynapak 14. Please contact BlueHalo for full environmental qualification details of the ARS-16. BlueHalo offers both space qualified and non-space versions of the ARS-16 product line.

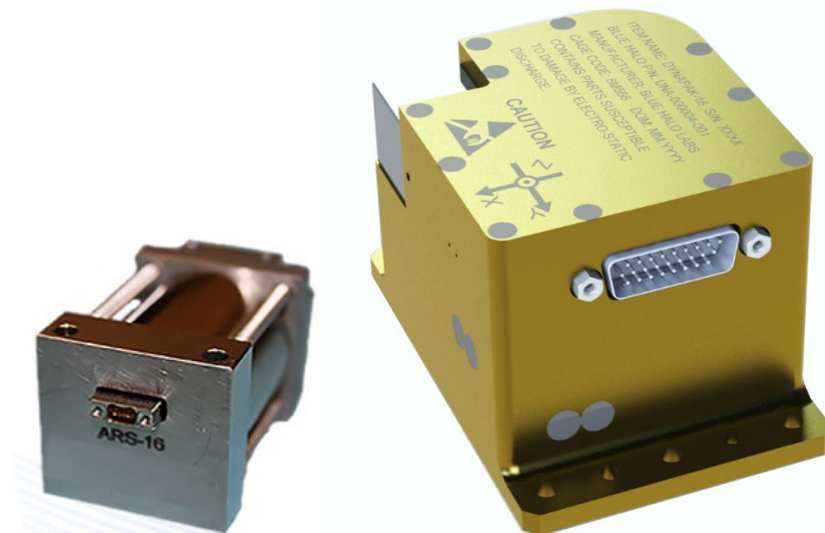


Figure 1. ARS-16 (left), Dynapak 16 (right)

BlueHalo products ARS-14 and associated Dynapak 14 (**Figure 2**) will no longer be manufactured as of December 2022. These products can be manufactured on a custom basis, but with increased lead time and cost, and with minimum order requirements. These products will continue to be calibrated and tested to support our existing customers.



Figure 2. ARS-14 (left), Dynapak 14 (right)

Table 1 compares performance of the ARS-14 and ARS-16. **Table 2** compares specifications of the Dynapak-14 and Dynapak-16.

Table 1. ARS-14 and ARS-16 Sensor Performance Characterization

PARAMETER	ARS-14	ARS-16
Range	±0.1 rad/s	±0.1 rad/s
Scale Factor	20 V/rad/s or 100 V/rad/s	100 V/rad/s
Noise Equivalent Rate	<5e-6 rad/s rms	<5e-6 rad/s rms
Noise Equivalent Angle	<50 nrad, 1 Hz to 1 kHz	<40 nrad, 1 Hz to 1 kHz
Temperature (Operating)	-30 °C to +60 °C	-30 °C to +70 °C
Temperature (Survival)	-30 °C to +60 °C	-40 °C to +70 °C
Size	1.03" x 1.03" x 2.09"	1.10" x 1.10" x 1.75"
Mass	200 grams	200 grams

Table 2. Dynapak 14 and Dynapak 16 Specifications

PARAMETER	DYNAPAK 14	DYNAPAK 16
Range	±0.1 rad/s	±0.1 rad/s
Scale Factor	100 V/rad/s	100 V/rad/s
Noise Equivalent Rate	<5e-6 rad/s rms	<5e-6 rad/s rms
Noise Equivalent Angle	<50 nrad, 1 Hz to 1 kHz	<40 nrad, 1 Hz to 1 kHz
Temperature (Operating)	-30 °C to +60 °C	-30 °C to +70 °C
Temperature (Survival)	-30 °C to +60 °C	-40 °C to +70 °C
Mass	1500 grams	<850 grams
Connector	Glenair Mighty Mouse 26-pin circular	Glenair HiPer-D series High Density D-Sub 26-pin connector
Temperature Sensor	Customizable in each sensor	AD590 in each sensor, or a single custom installed RTD in the Dynapak enclosure

BlueHalo recognizes the importance of providing qualified high reliability, space hardware to our customers, and is committed to providing the highest quality products. Please discuss any questions or concerns with a BlueHalo representative.