

FARO Prime Features, Benefits & Technical Specifications

FARO®



Features

Temperature & Overload Sensors

Located in each joint, they allow the Arm to “feel” and react to thermal variations and improper handling for maximum accuracy

Bluetooth® Cable-Free Operation

Inspect and digitize wirelessly up to 10m (30ft) away

Internal Counter Balancing

Internal counter balancing provides comfortable stress-free usage

Multi-Probe Capability

Including various ball diameters, custom extensions and optional touch sensitive probe.

Extended-Use Battery

Integrated extended-use battery provides true “measure anywhere” capability

Universal Quick Mount

Adds mounting flexibility while reducing setup time

FARO's best accuracy, best value measurement arm

Available in five working lengths and 6-Axis configuration, the FARO Prime delivers the highest FaroArm® accuracy at an amazing value. Equipped with Bluetooth® technology, the Prime eliminates the need to tether the device to a laptop. An extended-use battery and composite material construction ensure shop floor durability, day after day.

Together, these features make the FARO Prime the ideal solution for basic measurements in inspection, reverse engineering, CAD-to-part analysis and for anywhere else a high-accuracy, hard-probing measurement solution is needed. Experience high performance at a great value in the FARO Prime.

Highlights

- ▶ Repeatability Starting at 0.016mm
- ▶ Exclusive 6-Axis Availability
- ▶ Available in 5 Working Volumes
- ▶ Infinite Rotation Flexibility
- ▶ Composite Material Construction
- ▶ Adaptable 3D Measurement Technology

Performance Specifications

Model	Volumetric Accuracy	Single Point Repeatability	Weight
1.2m (4ft)	±.023mm (±.0009in)	.016mm (.0006in)	9.1kg (20.0lbs)
1.8m (6ft)	±.027mm (±.0011in)	.019mm (.0007in)	9.3kg (20.5lbs)
2.4m (8ft)	±.034mm (±.0013in)	.024mm (.0009in)	9.5kg (21lbs)
3.0m (10ft)	±.059mm (±.0023in)	.042mm (.0017in)	9.75kg (21.5lbs)
3.7m (12ft)	±.085mm (±.0033in)	.060mm (.0024in)	9.98kg (22lbs)

FaroArm Test Methods - (Test methods are a subset of those given in the B89.4.22 standard.)

Volumetric Accuracy or Volumetric Maximum Deviation: Determined by using traceable length artifacts, which are measured at various locations and orientations throughout the working volume of the FaroArm. This test is a method for determining articulating measurement machine accuracy.

Single Point Repeatability or Single Point Articulation Performance Test (Max-Min)/2: The probe of the FaroArm is placed within a conical socket, and individual points are measured from multiple approach directions.

Hardware Specifications

Operating Temp Range: 10°C to 40°C (50°F to 104°F)
Temperature Rate: 3°C/5min (5.4°F/5min Max)
Operating Humidity Range: 0-95%, noncondensing
Power Supply: Universal worldwide voltage
 85-245VAC, 50/60 Hz

Certifications: MET (UL, CSA Certified)
 CE Compliance
 Directive 93/68/EEC, (CE Marking)
 Directive 89/336/EEC, (EMC)
 FDA CDRH, Subchapter J of 21 CFR 1040.10
 Electrical Equipment for Measurement, Control & Lab Use
 EN 61010-1:2001, IEC 60825-1, EN 61326
 Electromagnetic Compatibility (EMC)
 EN 55011, EN 61000-3-2, EN 61000-3-3, EN 61000-4-4,
 EN 61000-4-5, EN 61000-4-6, EN 61000-4-8, EN 61000-4-11

Patents: 5402582, 5611147, 5794356, 6366831, 6606539, 6904691, 6925722, 6935036, 6973734,
 6988322, 7017275, 7032321, 7043847, 7051450, 7069664, 7269910, D490830, D491210

Contract Holder

ISO 9001
 BUREAU VERITAS
 Certification



For more information call 800.736.0234
 or visit www.faro.com