

# FPS Accessories - AMS & Software Upgrades

accessories for FPS1010, FPS3010, FPS3010-19"

## Technical Specifications

### FPS AMS - Angular Measurement Software

	high resolution measurement of angular position variations, handling three sensor heads in parallel
type	hardware & software upgrade
interface	USB, ethernet, AquadB, HSSL
dimensions sensor head holder M12	65 x 65 x 9.5 mm <sup>3</sup>
weight sensor head holder M12	63.5 g
dimensions sensor head holder M15.5	65 x 65 x 9.5 mm <sup>3</sup>
weight sensor head holder M15.5	57.5 g
sensor	3 axes per unit
measurement	combined: 2 angles, 1 linear distance
angular measurement range	+/- 5°
angular resolution	10 μ° (170 nrad)
linear measurement range	0..3000 mm
linear resolution	1 pm
maximum sensor separation	d < 3 m
relative error @ 1°	2E-8
relative error @ 5°	5E-5

### FPS1010 Axis Upgrade

	activation of up to two additional measurement axes of an FPS1010
type	software upgrade for FPS1010
axes	maximum two upgrades possible

### FPCW Cables & Wiring

type	HDMI to SubD adapter cable incl. level adaption
output supply	differential AquadB, single-ended AquadB, single-ended HSSL
length	2.5 m, 10 m
type	SubD to BNC cable
output supply	single-ended AquadB
length	1 m

### FPS Data Marker

	for synchronizing external digital signals with measured position data
type	software upgrade
input signals	via GPIO port
output signals	USB, ethernet

### FPS SYNC Package

	activation of the ethernet interface for using EPICS drivers
type	software upgrade
interface	ethernet
software	EPICS drivers

### Article Numbers & Options

FPS AMS	1008537
FPS AMS sensor holder (M12)	1008993
FPS AMS sensor holder (M15.5)	1008994
FPS Data Marker	1009345
FPS Sync Package	1007182
FPS1010 Axis Upgrade	1007181
FPCW/2.5	1007329
FPCW/10	1007332
BNC 1 m	1007330

## Drawings

### AMS

