

FPS Accessories - ECU, AMS, Software Upgrades

accessories for FPS1010, FPS3010, FPS3010-19"

Technical Specifications

FPS ECU - Environmental Compensation Unit¹⁾

	correcting for variations of index of refraction during operation at ambient conditions
type	hardware & software upgrade
interface	GPIO port
dimensions	Ø 37 mm, height: 17.4 mm
weight	36.5 g
integrated sensors	T, p, rH
meas. accuracy T-sensor	+/- 0.1 °C (0..50°C)
meas. accuracy p-sensor	+/- 1 hPa (300..1100 mbar)
meas. accuracy rH-sensor	+/- 2 % (10..90 %)
typ. accuracy FPS setup	better +/- 1 ppm
sensor mount	magnetic, screw mount
working environment	non-condensing
cable length	5 m

FPS Data Marker¹⁾

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

Article Numbers & Options

FPS ECU	1008536
FPS AMS	1008537
FPS AMS sensor holder (M12)	1008993
FPS AMS sensor holder (M15.5)	1008994
FPS Data Marker	1009345
FPCW/2.5	1007329
FPCW/10	1007332
BNC 1m	1007330

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
weight sensor head holder M12	63.5 g
dimensions sensor head holder M15.5	65 x 65 x 9.5 mm
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 µm
max sensor separation	d < 3 m
relative error @ 1°	2E-8
relative error @ 5°	5E-5

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

Drawings

ECU



AMS

