Naslov : **AVTOMATSKI MERILNI SISTEM ZA SPREMLJANJE STANJA OKOLJA**
xoberl : **hoberl**
št. projekta : hoberl_1000
verzija : 1000.5
naslov : Radarski merilnik vodostaja: **Vegapuls64**
vrsta dokumentacije : tehnične specifikacije
arhiv: : 1000_ts_Vegapuls64.doc

1.		**RADARSKI MERILNIK VODOSTAJA**
1.a	**PROIZVAJALEC**	**Vega**
1.b	**TIP**	**Vegapuls64**
1.c	**KODA ZA NAROČANJE**	**PS64.AXBXCCHXKMXXM**
1.d	**PROGRAMSKO JEDRO (FIRMWARE)**	**-**
2.	IZHODNI PODATKI (DATA)	
		Vodostaj (water level)
3.	MERJENE VELIČINE (MEASURED QUANTITIES)	
3.a	**Vodostaj (water level)**	
3.a1	MERILNIK (SENSOR)	Vegapusl64 radar: frequency: W-band (80 GHz technology) beam angle: 3° measuring cycle time approx.: 700 ms max. spectral transmission power density: +34 dBm/50 MHz EIRP[1] average spectral transmission power density: -3 dBm/MHz EIRP
3.a2	ENOTE (UNITS)	mm
3.a3	TOČNOST MERITVE(MEASUREMENT ACCURACY)	(According to DIN EN 60770-1) Range 0-0.25m: < 10 mm Range 0.25-30m: 1 mm
3.a4	MERILNO OBMOČJE (MEASUREMENT RANGE)	Distance: 0 … 30m Output signal: 4 … 20 mA/HART
3.a5	RESOLUCIJA (RESOLUTION)	Signal: 0.3uA Digital: 1mm
3.a6	ODZIVNI ČAS (RESPONSE TIME)	≤ 3s
4.	SPECIFIKACIJA MERJENIH PODATKOV (MEASURED DATA SPECIFICATION)	
4.a	OBDELAVA PODATKOV (DATA PROCESSING)	internal signal processing algorithms
4.b	MERJENE VELIČINE (MEASURED QUANTITIES)	***main measurements:*** • level_µwaveRadar
5.	**TEHNIČNI PODATKI ZA MERILNIK (TECHNICAL DATA)**	
5.a	ANALOGNI VMESNIK (ANALOGUE INTERFACE)	
5.a1	VRSTA ANALOGNEGA IZHODA (TYPE OF ANALOGUE OUTPUT)	OUT1: current
5.a2	LASTNOSTI IZHODA (OUTPUT SPECIFICATION)	OUT1: 4 … 20mA (possible use of HART protocol) possible I2C user management connection by use of converter module
5.b	NAMESTITEV (INSTALLATION)	
5.b1	PRIKLOP (CONNECTION WIRING)	connector: internal PCB clamps cable: 7 wire cable

[1] Equivalent isotropic radiated power

5.b2	NAPAJANJE (POWER SUPPLY)	9.6 … 35 Vdc (4..20mA loop powered)
5.b3	PRIPOMOČKI ZA NAMESTITEV (INSTALLATION ACCESSORIES)	mounting strap
6.	ACCESSORIES	
6.a	PC- PRIPOMOČKI (PC-ACCESSORIES)	PACTware configuration and maintenance software
7.	SPLOŠNI PODATKI (GENERAL DATA)	
7.a	DIMENZIJA (DIMENSION)	Lenght: 274 mm (with mounting strap) Diameter: 115 mm
7.b	TEŽA (WEIGHT)	2 … 17.2 kg (depending on the fitting)
7.c	MATERIAL (MATERIAL)	PROTECTION RATING: IP66/IP67
7.d	OKOLJSKI POGOJI (ENVIRONMENTAL CONDITIONS)	Temperature: -40 … +80°C