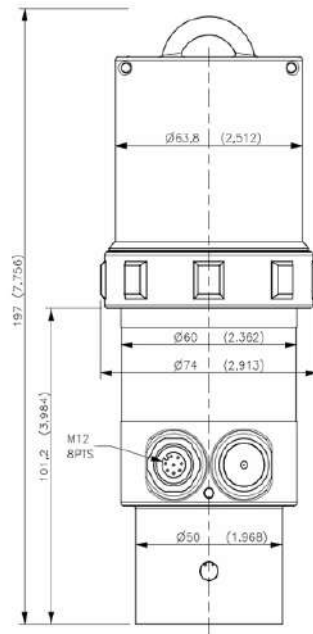


Ultrasonic process level sensor CNU06V3



Connector 8F (Red ring)		Wire color
1	Vin (8-30V)	White
2	GND	Bron
3	RS485-H	Green
4	RS485-L	Yellow
5	Iout (0-20mA) *	Grey
6	Sortie Drain Ouvert 1	Pink
7	Sortie Drain Ouvert 2	Blue
8	Contact Input	Red





*** Current loop application:**

- The sensor can not be powered by the loop
- Use of the 3 wires required: Vin, GND, Iout

Features	CNU06V3		
Measuring range	0,3 ... 6,0m		
Resolution	1000 points 4mm : mesure 0,3...3,0m 7mm : mesure 0,3...6,0m		
Power supply	8 ... 30Vdc		
Power consumption	1Watt max.		
Output	- Modbus RS485 • Mode ASCII or RTU • Baudrate (Baud) 600, 1200, 2400, 4800, 9600, 14400, 19200, 38400, 57600 (Baudrate = 9600bps) • Slave Address selectable by user (default addr=1) - 4-20mA current loop (the sensor cannot be powered by the loop : 3-wires connection required) - Open Drain ► Need of an external pull-up resistor (10KOhm typical)		
Input	- TOR (1Hz max.)		
		Modbus	Power loop
Measures	- Distance - Level (water height) - Flow (according to conversion table H/Q) - Volume - Temperature	X X X X X	X X (Only one loop)
Measuring period	500ms at 1s, Depending on conversion from level measurements		
Temperature compensation	Yes		
HF antenna	Internal		
Data logger	500 000 Measures		
Radio data access point	Yes		

Ultrasonic process level sensor CNU06V3

Features	CNU06V3
HF Frequencies	868Mhz (Europe) / 915MHz (Amérique)
Temperature range	-40 ...80°C
Housing	ABS 20%FV
Connector	M12 - 8 points - Earth plug
Sealing	IP68
Programming	By radio using the software AVELOUR (version 5.3.0 minimum) and an USB wireless WIJI access point
Certification Atex zone 2	 II 3G Ex ic ec IIB T4 Gc Tamb : -20°C...+60°C
Certification	

Modbus registers and decoding table :

4	2	Temperature resolution 1/10ème de °C
6	2	Temperature resolution 1/16ème de °C
8	2	Water level
10	1	Overflow sate (if overflow activated)
18	2	Flow (m3/s)
20	2	Distance (mm)
22	2	Periodic volume (m3)
24	2	Infinite volume (m3)

Bloc diagramme fonctionnel :

