




Meter counter
Model 30.351

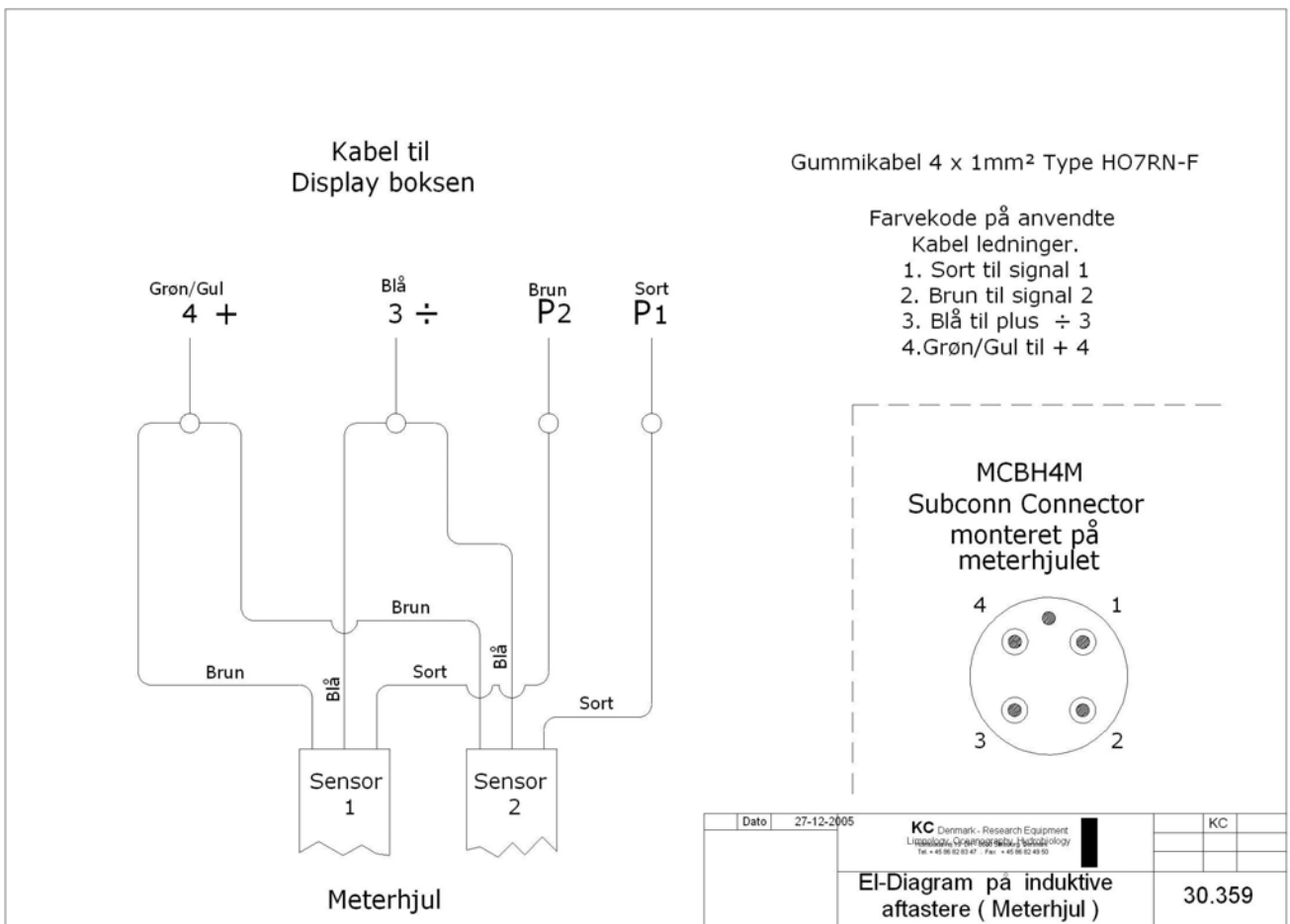
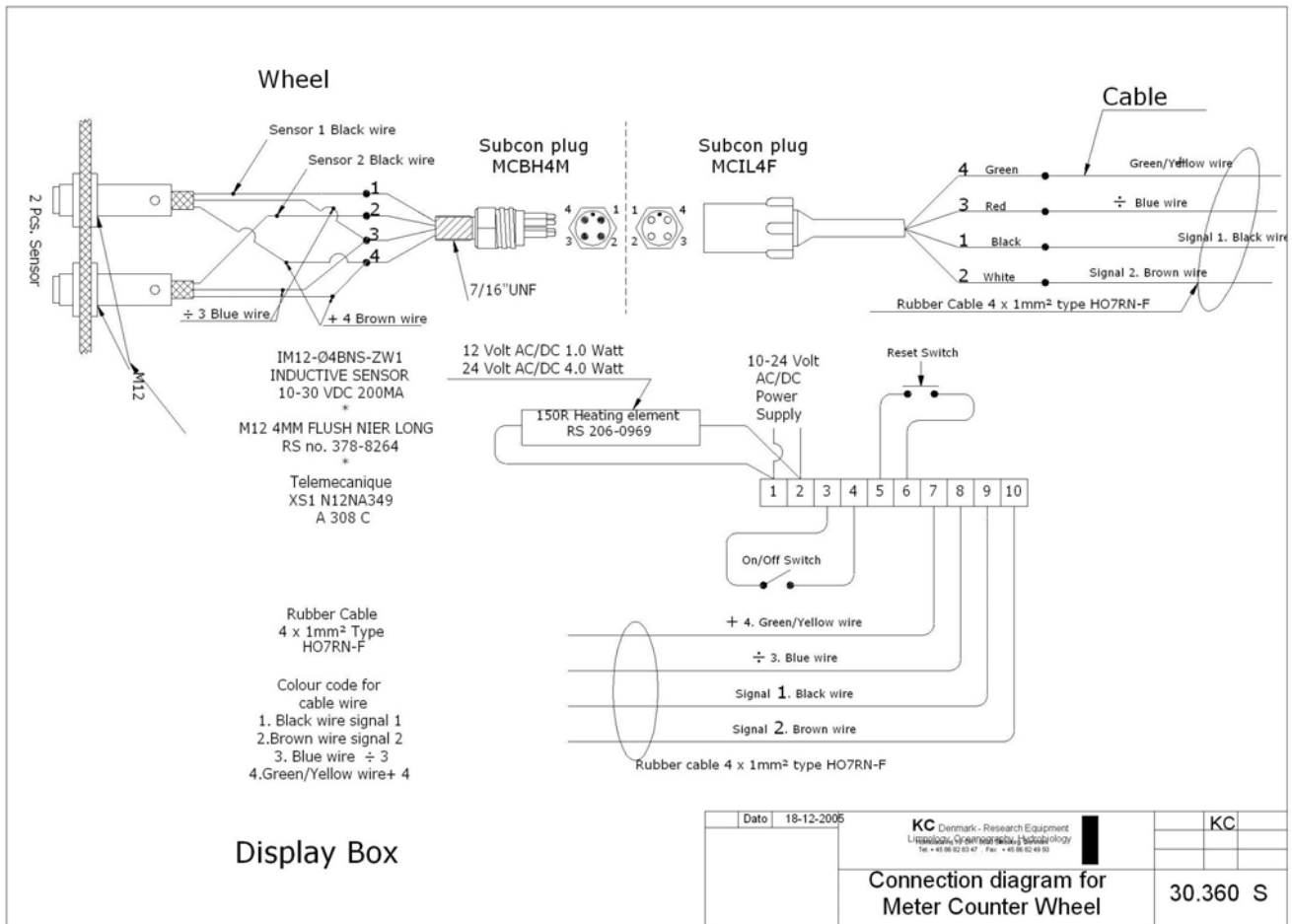
Manual

KC Denmark A/S

Research Equipment
Limnology • Oceanography • Hydrobiology

	Manual for meter counter	Model no. 30.351
	Meter counter	
1	<p>Capacity: Max. 9.999,9 meters. Resolution: 10 cm Power supply: 10 – 24 Volt AC or DC Power consumption: App. 200 mA Night visibility</p>	
2	Power supply:	
	<p>The counter needs an external power supply of 10 – 24 Volt AC or DC. Power consumption: Max. 200 mA.</p> <p>A 3-conductor cable, length 5 m, is for the power supply.</p> <p>Connection: Brown and blue wire: 10 – 24 Volt AC or DC. No need for polarity. Yellow/green wire: Earth. No needs for connecting to ground.</p>	
3	Preparation:	
	<p>Before inserting the cable on the meter wheel check out the counting direction of the wheel by manually turning of wheel.</p>	
4	Operation:	
	<p>Push the green bottom to start the counter and the night visibility.</p> <p>When you lower the equipment and it hits the sea level, you can reset the counter to zero by pushing the red bottom.</p>	

5	Display:	
	<p>The display will show the cable length with a resolution of 10 cm.</p> <p>The very first digit will show a maximum of 3 bars. The upper and lower bar indicates the counting impulses and at the middle the bar will show the power supply has been connected.</p>	
6	Heating element:	
	<p>The counter has an internal heating element to prevent condensate water. (Always connected, regardless of the green bottoms position).</p>	
7	Troubleshooting:	
	<p><i>Incorrect read-out of the cable length:</i></p> <p>A KC-Meter wheel has been designed for a specific diameter of wire and using another diameter will course an incorrect read-out of $\pm 1-2\%$.</p>	
	<p><i>No count or flashing bars on the display:</i></p> <p>Look for the correct power supply; it must be in the range of 10 – 30 Volt AC or DC. If one or more bars are missing (for the very first digit to the left) it will indicate missing power supply or missing signal from the meter counter wheel.</p> <p>The upper and lower bar will flash by turns while turning the counter wheel slowly. A missing bar indicates no signal from one of the sensors in the meter wheel. Test all connections through the cable. Using a voltmeter please test for the voltage across the negative cord (8) to P1 and P2. The voltage must be similar to the power supply and will change from 0 to max. voltage by turning the meter wheel.</p>	



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