

# Graphtec B-530 Humidity Sensor

Item	Description																		
Allowable temperature range	-25 to +80°C																		
Allowable humidity range	0 to 100% RH																		
Relative humidity measurement accuracy	±3% RH (5 to 98% RH at 25°C)																		
Method	Capacitance method																		
Relative humidity measurement accuracy (5~98%)	<table border="1"> <thead> <tr> <th>Measurement environment</th> <th>Measurement accuracy</th> </tr> </thead> <tbody> <tr> <td>0~10°C</td> <td>±5% RH</td> </tr> <tr> <td>10~20°C</td> <td>±4% RH</td> </tr> <tr> <td>20~30°C</td> <td>±3% RH</td> </tr> <tr> <td>30~40°C</td> <td>±4% RH</td> </tr> <tr> <td>40~50°C</td> <td>±5% RH</td> </tr> <tr> <td>50~60°C</td> <td>±6% RH</td> </tr> <tr> <td>60~70°C</td> <td>±7% RH</td> </tr> <tr> <td>70~80°C</td> <td>±8% RH</td> </tr> </tbody> </table>	Measurement environment	Measurement accuracy	0~10°C	±5% RH	10~20°C	±4% RH	20~30°C	±3% RH	30~40°C	±4% RH	40~50°C	±5% RH	50~60°C	±6% RH	60~70°C	±7% RH	70~80°C	±8% RH
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Response time	15 s (90% response when membrane filter installed)																		
Sensor output	0 to 1 VDC																		
Sensor power	+5 to +16 VDC																		
Consumption current	+Approx. 4 mA																		
External dimensions	φ14 mm x 80 mm (excluding cable)																		
Cable length	3 m																		

