

# LAKWOOD INSTRUMENTS NCON NODE

**NCON Part No. 1168513**



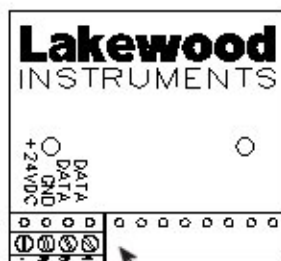
The Conductivity Node (NCON) is a LONWORKS® Technology-compatible node that uses twisted pair communications. The NCON works with several different temperature compensation inputs and with two- or four-electrode sensors. These multiple-sensor input options allow for various conductivity sensors to be used. Temperature compensation is adjustable by percent per degrees Celsius for use with various processes. The NCON's ability to cover a wide range in conductivity is due to its advanced auto-ranging circuitry. The NCON's four-electrode circuitry allows for compensation when fouling occurs on sensor electrodes. When sensor fouling can no longer be corrected, the NCON sends a fouled electrode alarm.

The NCON can be used with Lakewood 2000 Series Controllers. On cooling towers, it can be used for chill loop monitoring and control, as well as on the makeup line for multi-setpoint or cycles of concentration control. Up to eight NCON's may be used with the 2255 Multi Boiler Controller to control up to eight boilers.

One Network Interface Node (NIN) per 2000 Series Controller is required to operate network nodes such as the NCON.

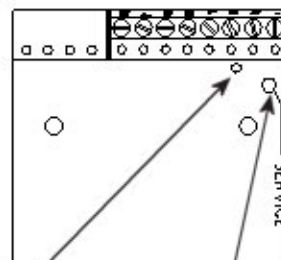
## SPECIFICATIONS

<p><b>Conductivity</b> Range 0-200,000 <math>\mu</math>S (with proper conductivity sensor)</p> <p><b>Distance Between Two Furthest Nodes</b> 400 m (1312 ft) maximum without a repeater</p> <p><b>Power</b> 24 VDC</p> <p><b>Node Ambient Temperature</b> 0-85°C (32-185°F)</p>	<p><b>Temperature Compensation</b></p> <table border="0"> <tr> <td>Inputs</td> <td>None</td> <td>100 PTC</td> </tr> <tr> <td></td> <td>500 NTC</td> <td>1K PTC</td> </tr> <tr> <td></td> <td>4K NTC</td> <td>3K PTC</td> </tr> <tr> <td></td> <td>10K NTC</td> <td>10K PTC</td> </tr> </table> <p>Compensation is adjustable by % per °C</p> <p>Accuracy 1% of sensor reading</p> <p>Resolution 1% of reading</p>	Inputs	None	100 PTC		500 NTC	1K PTC		4K NTC	3K PTC		10K NTC	10K PTC
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**Network and Power connections**

Connection to NIN and other nodes as well as 24 VDC.



**Service Light**

Indicates node status.

**Service Pin**

Installs node on network.