



# Y99AN Junction Block

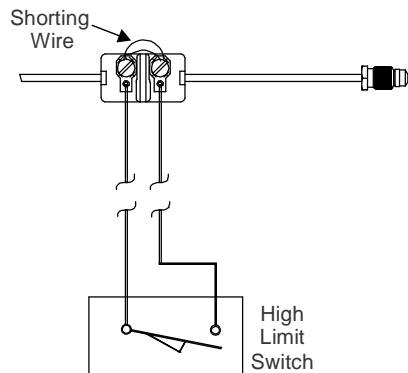
## Application

**For use with thermocouple leads through 36 inches.**

The Y99AN-1 and Y99AN-17 junction block adapter will fit any BASO Gas Products thermocouple lead for conversion to junction block application. Most common use for a junction block is wired with a high limit switch or a relay contact to protect your equipment. If a high limit is not used, use a "shorting wire" on the junction block as shown in Figure 1.

The power unit connection, terminal ends of junction block and thermocouple must be clean. These are electrical connections and must be tight. It is recommended that the lead wire from the hi-limit have eyelet connectors for attaching to the terminal board of the junction block.

During operation of the appliance, the closed circuit millivoltage must not fall below 10 mV.



**Figure 1: Junction Block Thermocouple**

When tightening the thermocouple lead nut, tighten with your fingers plus a maximum 1/8 turn. Do not over tighten.



BASO Gas Products LLC

450 East Horseshoe Road  
P.O. Box 170  
Watertown, WI 53094  
1-877-2276427 (1-877-BASOGAS)

**Table 1: Maximum Distance**

Maximum Distance Between the Limit Device and the Junction Block			
Length of Thermocouple Lead	Wire Gauge Size		
	#10	#12	#14
18"	123"	78"	50"
24"	116"	67"	43"
30"	88"	56"	35"
36"	70"	44"	29"

Note: The length shown is for two-conductor parallel lead wires.

**Table 2: Thermocouple Output**

Thermocouple Type	Open Circuit mV Range	Open Circuit mV Must Not Fall Below
K15	20-28 mV	15 mV
K16	25-35 mV	17 mV
K17	30-40 mV	25 mV
K19	25-35 mV	17 mV