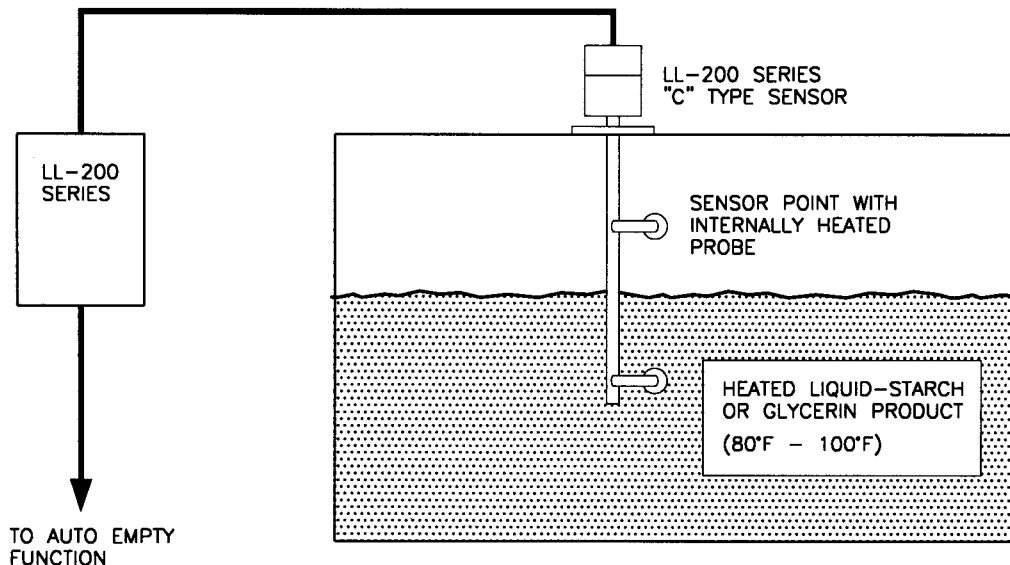




**LIQUID LEVEL CONTROL FOR VISCOUS, COATING LIQUIDS  
WHICH HAVE A TENDENCY TO "BUILD-UP" ON  
THEMSELVES OR ON OTHER MATERIALS**



**PROBLEM:** MAINTAIN AUTOMATIC HIGH/LOW LEVEL CONTROL OF A LIQUID WHICH TENDS TO CAUSE A BUILD-UP WHEN EXPOSED TO THE AIR AT ROOM TEMPERATURE. LOW POINT OF SENSOR OPERATED WELL WHEN SUBMERGED IN LIQUID WHICH KEPT FLUID AT A CONSTANT TEMPERATURE OF 85°F; HOWEVER, WHEN THE LIQUID REACHED THE HIGH POINT OF THE SENSOR, ACTUATING THE RELAY TO CYCLE THE PROCESS BACK TO THE LOW POINT OF THE SENSOR. THE MATERIAL ON THIS HIGH POINT WOULD BUILD UP AFTER A FEW CYCLES SINCE THIS POINT REMAINED IN THE AIR FOR A LONGER PERIOD OF TIME BEING CONSIDERABLY COOLER AND ALLOWING MATERIAL TO "SET-UP".

**SOLUTION:** A CELLOTERM FLEX HEATER WAS INCORPORATED INTO THE HIGH SENSING POINT OF THE SENSOR, AFFORDING A HEAT OUTPUT OF APPROXIMATELY 5 WATTS WHICH ADEQUATELY MAINTAINED THE LIQUID IN THE FLUID STATE PREVENTING THE BUILD UP AND ERRONEOUS TRIPPING OF HIGH POINT INDICATION (FOR USE IN NON-HAZARDOUS APPLICATION). USING A LL-200 SERIES "C" TYPE SENSOR CONFIGURATION, UNIT WAS NEVER COATED.