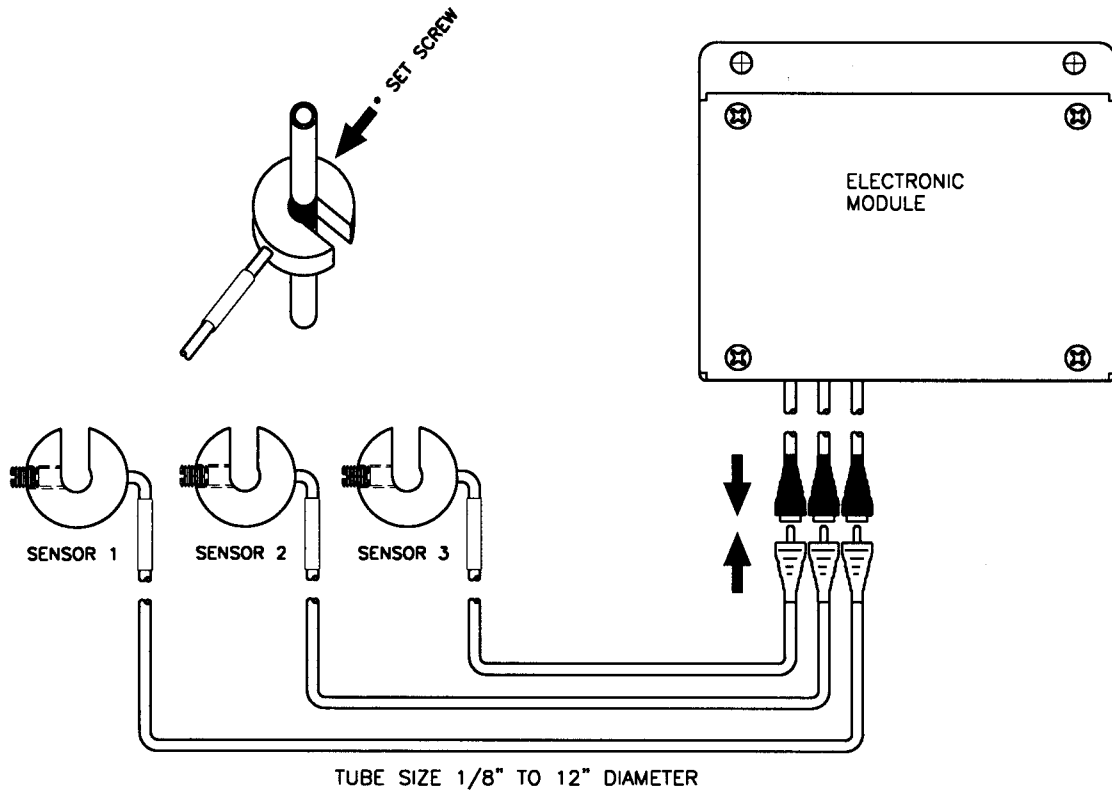




**MULTICHANNEL NON-INVASIVE/NON-CONTACT CLAMP-ON
LEVEL DETECTION "SONIC EYE" SE-601 SERIES**



PROBLEM: IN ORDER TO KEEP THE INTEGRITY OF THESE ULTRA PURE LIQUIDS, MEASUREMENT AND CONTROL OF THESE LIQUIDS BECOMES A DIFFICULT TASK SINCE THE LEVEL SENSOR CAN NOT COME IN CONTACT WITH THE ULTRA PURE LIQUIDS.

SOLUTION: COSENSE HAS SOLVED THIS MEASUREMENT AND CONTROL PROBLEM BY OFFERING OUR CUSTOMERS THE SE-601 SERIES UP TO FOUR POINT NON-INVASIVE CLAMP-ON LIQUID LEVEL SWITCH TO MONITOR THE LEVEL AND ALSO CONTROL THE AUTOMATIC FILL OPERATION OF THE ULTRA PURE CHEMICAL FLUIDS IN DIFFERENT SIZE VESSELS. COSENSE'S CLAMP-ON DESIGN ALLOWS FOR INSTALLATION OF THE SENSOR WITHOUT INTERRUPTING THE MANUFACTURING PROCESS. THE MULTICHANNEL SE-601 SERIES USES AN ULTRASONIC SENSOR WHICH IS CLAMPED ON THE OUTSIDE OF THE PIPE TUBING. THE MICROCONTROLLER BASED ELECTRONICS GENERATES AN ULTRASONIC SIGNAL THAT ILLUMINATES THE LIQUID SENSING AREA. THE ABSENCE OF LIQUID IN THE SENSING AREA CAUSES THE ULTRASONIC SIGNAL TO DISSIPATE WHICH THE ELECTRONICS SENSES AS AN ABSENCE OF LIQUID CONDITION. WHEN LIQUID IS PRESENT, THE AMPLITUDE OF THE ULTRASONIC SIGNAL INCREASES, INDICATING A PRESENCE OF LIQUID. THE SIGNAL IS CONVERTED BY THE ELECTRONICS TO A CONTROL OUTPUT. SONIC EYE™ HAS A CONTINUOUS SELF CHECK FEATURE (OPTIONAL) WHICH TRULY CHECKS FRONT BONDING OF ULTRASONIC CRYSTAL WHEN SENSOR IS CLAMPED ON A PIPE OR VESSEL.