

OEM MAXNIBP®

Design Function of Dual Pressure Transducers

All CASMED MAXNIBP OEM modules are designed with dual (primary and secondary) independent pressure transducers to meet the Patient Safety requirements of IEC 60601-2-30.

The Primary Pressure Transducer is a highly accurate, temperature compensated pressure transducer. The Primary Pressure Transducer detects patient pressure pulses and is used in the indirect measurement of blood pressure.

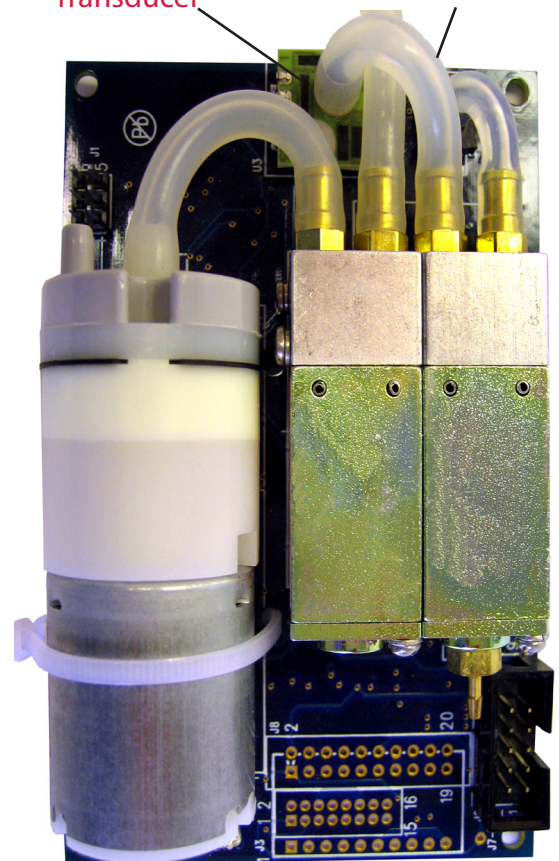
The Secondary Pressure Transducer measures cuff pressure and is a redundant patient safety mechanism, enabling the CASMED NIBP module to fail safe in the event an overpressure condition occurs.

In the event an overpressure condition should arise, the Secondary Pressure Transducer provides the added safety feature of automatic cuff deflation. Events that will trigger automatic cuff deflation include:

- Excessive measurement time
- Microprocessor failure
- Actual pressure exceeds the overpressure limit
- Loss of power to the NIBP module

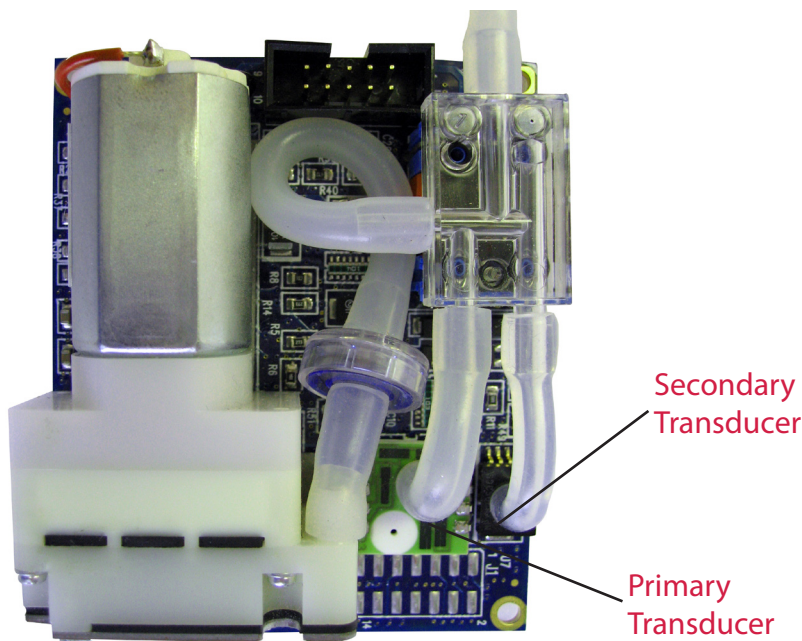
The output of the Secondary Pressure Transducer feeds directly to the safety CPU on the ND+ NIBP module. If an overpressure condition is detected, the safety CPU will reset the module allowing it to fail safe.

Primary Transducer Secondary Transducer



NE NIBP Module

ND+ NIBP Module



Secondary Transducer

Primary Transducer

For more information: Toll Free: 800.227.4414 Local: 203.488.6056
Ask for OEM Product Manager CAS Medical Systems Inc.
44 E Industrial Rd, Branford, CT 06405 USA www.CASMED.com