



VSV Remote Monitoring

Product Description

- The Variable Stator Vane (VSV) is part of the High Pressure Compressor (HPC) assembly and thus difficult to access.
- A Linear Variable Differential Transducer (LVDT) system can be installed allowing remote monitoring of Variable Stator Vanes (VSV) positions.
- The LVDT will be mounted on the Compressor Front Frame (CFF) at approximately the 9 o'clock position.
- LVDT is mechanically connected to the VSV union ring by a pin and a clevis arrangement.
- Union ring movement will send a signal back to the operator through the LVDT.
- **Installation will include:**
 - LVDT transducer and hardware.
 - Remote signal conditioner and hardware.
 - Cable between signal conditioner and LVDT.
 - Modified control system and HMI screen software.

Customer Value

- VSV is present to maximize efficiency over a wide range of air speeds.
- Proper monitoring of VSV position with LVDT allows the VSV to function more efficiently.
- LVDT position allows remote monitoring and accurate position of VSV to be known at all times.
- LVDT signal can be used for data or alarm processing.

Applicable Units:

LM6000		LM2500	✓
LMS100		LM5000	
LM1600		TM2500	

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All values are design or typical values when measured under laboratory conditions.

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