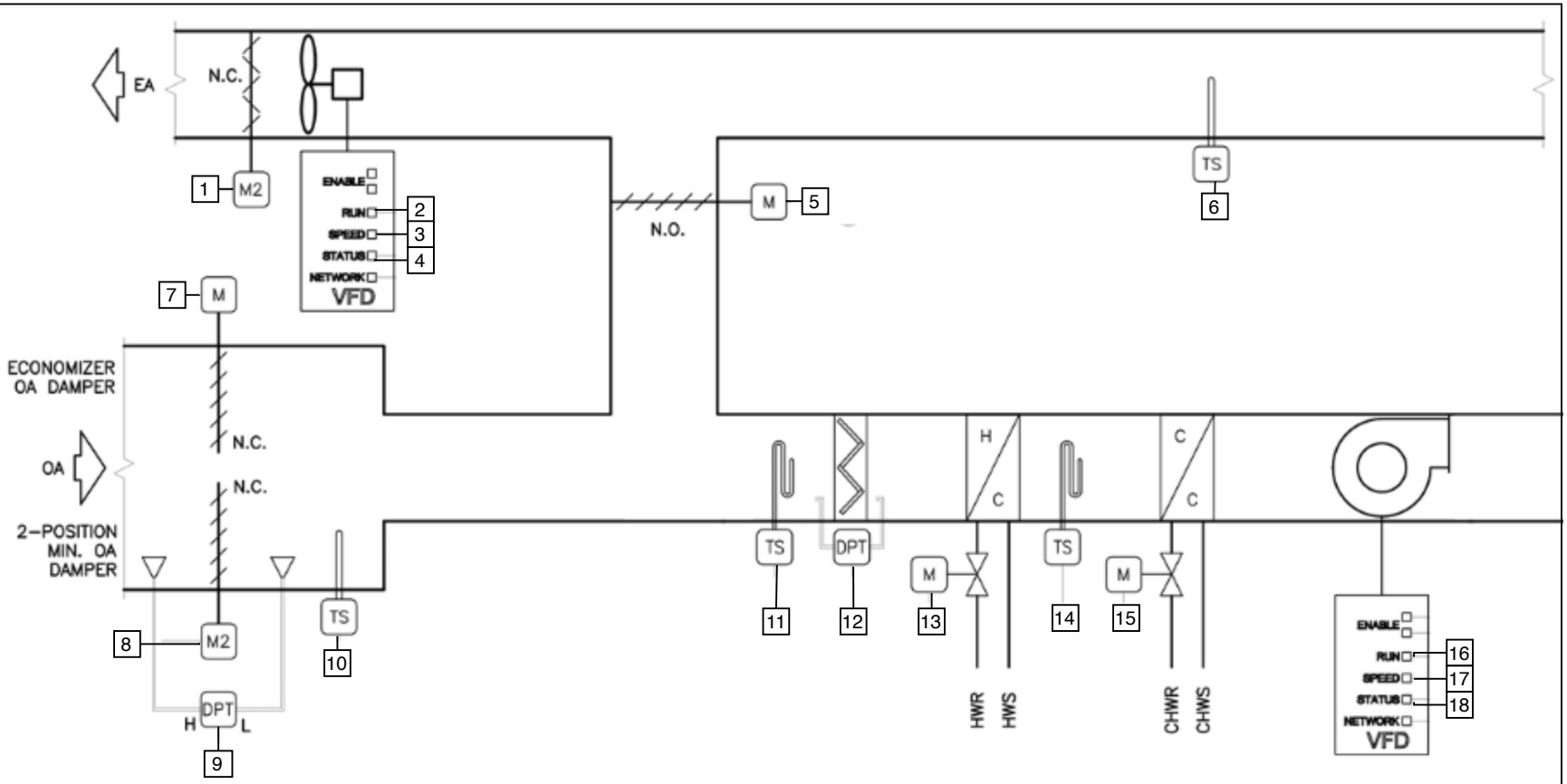

Control Points List

1. Relief damper position	DO
2. Relief fan start	DO
3. Relief fan speed	AO
4. Relief fan status	DI
5. Return air damper position	AO
6. Return air temperature	AI
7. Economizer outdoor air damper position	AO
8. Minimum outdoor air damper position	DO
9. ...	...

Control Sequence Description

The time rate of change of the damper signals is limited by a first order hold, using the sample time samplePeriod. This prevents a quick opening of the outdoor air damper, for example when the outdoor airflow setpoint has a step change. Slowing down the opening of the outdoor air damper allows the freeze protection to componensate with its dynamics that is faster than the opening of the outdoor air damper. To avoid that all dampers are closed, the return air damper has the same time rate of change limitation.

The control charts below show the input-output structure and an economizer damper modulation sequence assuming a well configured controller.
Control diagram: