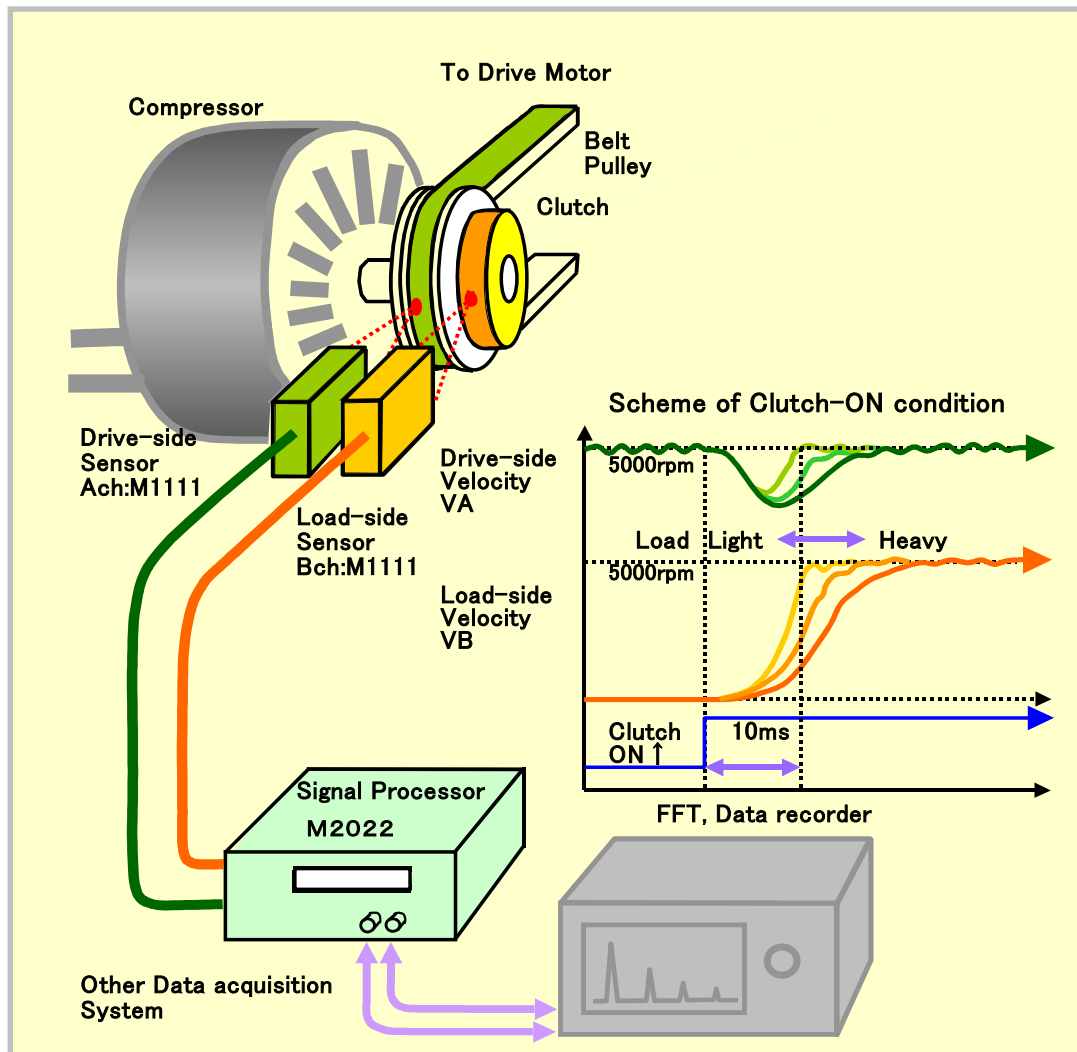


MODEL-2021 Application

Automobile: Load Test for Air Compressor



The load test measurement of air conditioner compressor for automobile.

The example shows the **ON-characteristic** via the electromagnetic clutch in the compressor of the car air-conditioner.

The **rise time** of the **velocity** is 20ms from 10ms at 690m/min when connecting the compressor with $\phi 44$ mm pulley at **5000 rpm**. The **acceleration** is about 900m/s/s.

The **start up characteristic** is depending on the load. If load is heavy, rise time is longer.

MODEL-2021 uses the optical method for velocity measurement. This method is **Non-contact measuring** system therefore the measurement does not require the alignment of axes and coupling such as for a rotary encoder.

The measurement result by using this system has **no interference from colors and any other status on the surface of the object**, and also this optical measuring method does not apply any pressure on rotations.