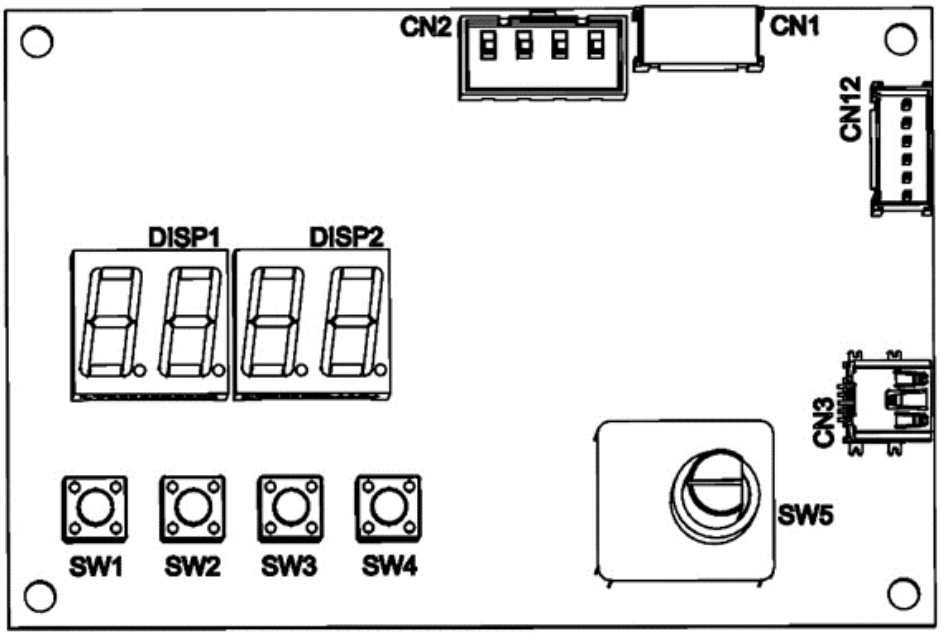
Manual Function Generator Operating Instructions

MASTERFLUX

Manual Function Generator:
025F0377



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Manual Function Generator Specification

General Information			
Controller Part Number	**Description**	**Nominal Voltage Range**	**Weight (Kg)**
025F0377	MESA & ATLAS Speed Signal Generator	DC 4.75~5.25 V	.033

Parameter	Min.	Nom.	Max.
Operating Range	DC 4.75 V	DC 5.0 V	DC 5.25 V
Operating Temperature	-15 °C		50 °C
Output Current			8.3 mA

Operation

1. Connect Controller to Compressor to be tested. See 600A1690 for MESA DC Controller instructions, 600A1689 for MESA AC Controller instructions or 600A1688 for ATLAS Controller instructions.
2. Connect a customer supplied standard USB-mini cable to CN3 on 025F0377. Connect the other end to USB (DC 5V) power supply or USB port on a computer.
3. Connect the signal cable to CN2 on 025F0377 and to the correct connectors on the controller. 040F0277 Signal cable for MESA Controllers and 040F0278 for ATLAS Controllers
4. Connect power to the controller.
5. Rotate the Signal Frequency Control Dial [SW5] to select the compressor RPS (revolutions per second) to match the desired compressor speed (refer to chart below). Please note, LED display shows the compressor RPS as XXX.X.
6. Press the Signal Output on/off switch [SW4] to send the frequency signal to the controller.
7. LED lights [1-4] will blink in reverse sequence while the frequency signal is being sent to the controller.
8. Compressor will run an oiling cycle at 1800 RPM for one minute before ramping to commanded speed. Ramp rate is 60 RPM/second.
9. Adjust the signal frequency control dial to change the compressor speed.
10. When testing is complete, press SW4 to stop the compressor.
11. Disconnect power and remove cables.

Speed Table

Display Speed [RPS]	Compressor Speed [RPM]
20	1200
40	2400
60	3600
80	4800
100	6000

Compressor Speed [RPM] = Displayed Speed [RPS] × 60

Assembly

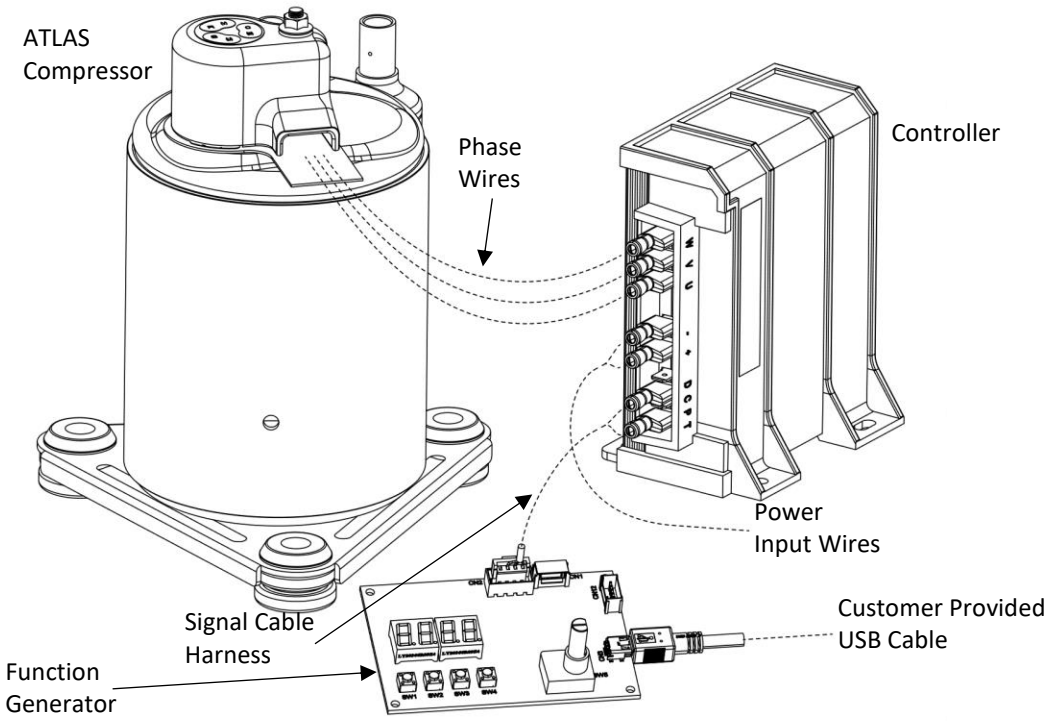

FIGURE 1: ATLAS Configuration

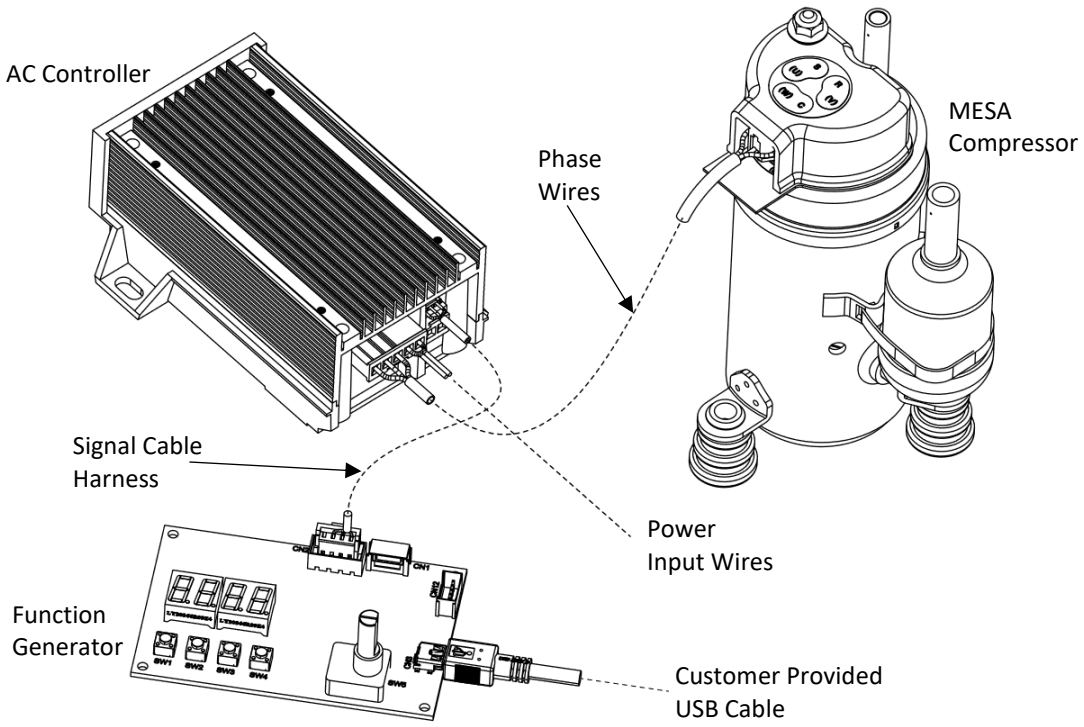

FIGURE 2: MESA AC Configuration

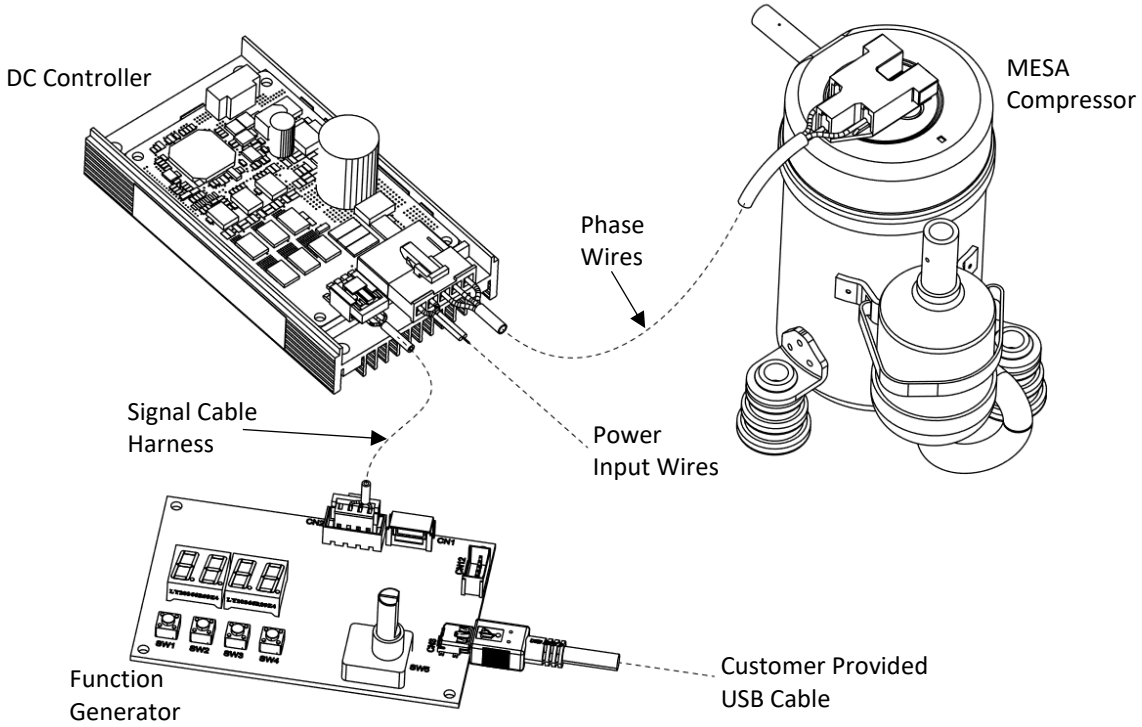

FIGURE 3: MESA DC Configuration