

DA METER

OPERATING INSTRUCTIONS

14 701 02 US

General

These operating instructions are intended to help you install and operate the type DA digital speed display system. The instructions include mechanical setup; electrical connections, specifications dimensions and programming details

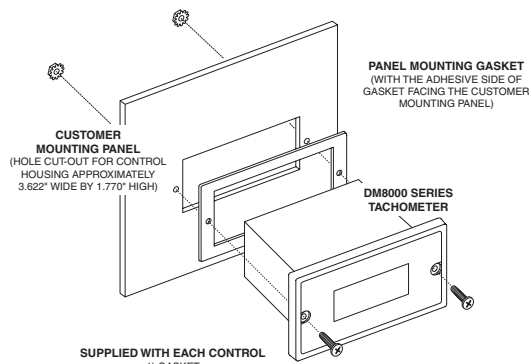
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DA Selection Guide

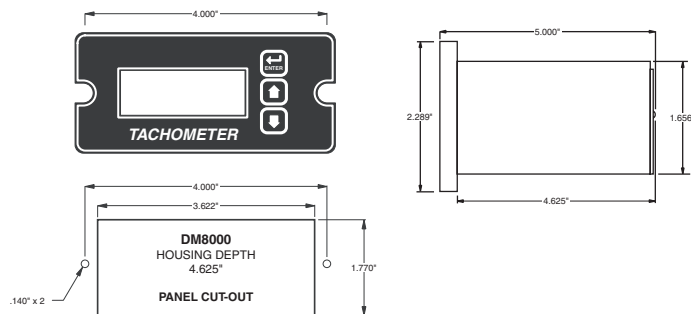
Meter Type	Voltage Input	Part Number
DM8000	85-265VAC	98DM8000

Operating Specifications

Temperature	10° to 45° C
AC Input Voltage	85-265VAC
Input Frequency	50/60Hz
Isolated high/low alarm output	5 Amp 230VAC max. setable range: 0 to 9999



SUPPLIED WITH EACH CONTROL
 1) GASKET
 2) (2) 6-32 X 3/4 PANHEAD BLACK OXIDE STAINLESS SCREWS
 3) (2) #6 NUT WITH LOCKWASHER



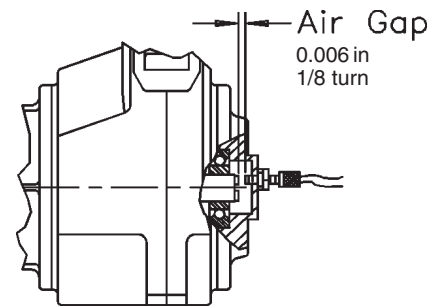
Installation and Dimensions

Magnetic Pickup Air Gap Specifications

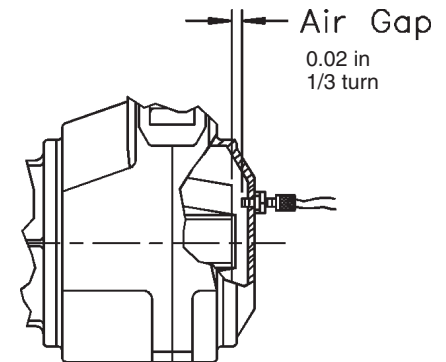
Procedure:

- 1) Tighten the magnetic pickup until it bottoms against one of the highest points of the sensed element.
- 2) Back off the magnetic pickup to the defined air gap. See the values below. Turn the variable speed drive manually to verify that the magnetic pickup does not contact any part of the sensed element. To turn the variable speed drive, remove the motor fanguard. The fan can be used to rotate the "unloaded" variable speed system.

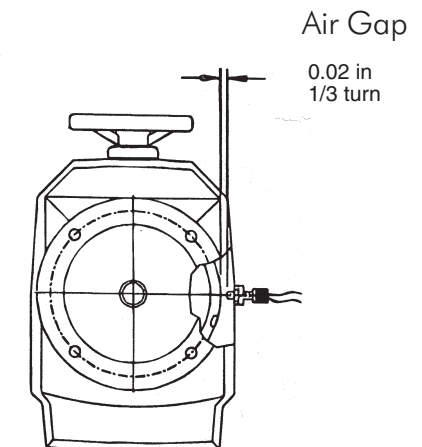
VARIGEAR®
 VU/VZ 01 → 51



VARIGEAR®
 VU6



VARIMOT®
 D16 → D46



**SEW
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**SOUTHEAST MANUFACTURING
 & ASSEMBLY CENTER**
 1295 Old Spartanburg Hwy, Lyman, SC 29365
 (864) 439-7537 Fax: (864) 439-7830

SOUTHWEST ASSEMBLY CENTER
 3950 Platinum Way, Dallas, TX 75237
 (214) 330-4824 Fax: (214) 330-4724

MIDWEST ASSEMBLY CENTER
 2001 West Main Street, Troy, OH 45373
 (937) 335-0036 Fax: (937) 222-4104

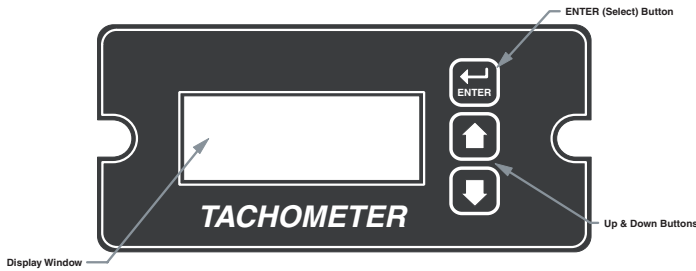
EAST COAST ASSEMBLY CENTER
 200 High Hill Road, Bridgeport, NJ 08014
 (856) 467-2277 Fax: (856) 330-4724

WEST COAST ASSEMBLY CENTER
 30599 San Antonio Road, Hayward, CA 94544
 (510) 487-3560 Fax: (510) 487-6381



Programming Interface Locations

There is one programming interface point used to set up the type DA meter, the front panel enter (select) button and the up and down arrow buttons.



Calculating Programming Values

N = Customer's Desired Display (GPM, FPM, RPM, etc.)
 D = Corresponding Speed of Gearbox (RPM) x Ratio of SEW reducer mounted to Varigear® or Varimot®
 X = either N or D (whichever is greater), MF = 9999/X
 Truncate MF to nearest smaller integer (e.g. Both 44.32 and 44.68 will become 44)
 P20 = N x MF (Round off P20 to nearest integer value)
 P21 = D x MF (Round off P21 to nearest integer value)
 Parameter 22 = 2 for Varigear® Type VU/VZ01 - VU51
 Parameter 22 = 6 for Varigear® Type VU6 and Varimot® Type D16, D26, D36, D46

Determining Meter Range Values for Parameter 25

The largest number to be displayed on the meter is used to determine the value of Parameter 25. The highest RPM of the gearbox is not used, only the highest number desired by the customer. (Ex: if the gearbox rpm is 10-50, but the customer desires the meter to read 30 – 150, then 150 is used for table).

Customer's Desired Top Display	Parameter 25 Value
1000 - 9999	4
100 - 999.9	3
10 - 99.99	2
0 - 9.999	1

NOTE: To turn off the decimal point, Parameter 25 Value = 0. Speed range for this position is the same as Parameter Value = 4.

How to Change a Parameter's Value

1. Hold down the Enter button until Parameter-Selection Mode is entered. Display shows "P0".
2. Using the Up and Down buttons, select the desired parameter number to view or edit.
3. Press the Enter button to display the present value of the parameter.
4. Using the Up and Down buttons, change the parameter's value as desired. All parameter values are integers. Ignore the flashing LED's.
5. Press the Enter button to permanently save the changes and return to Parameter-Selection Mode.
6. Repeat steps 4 & 5 to change any other parameters as required.
7. Select Parameter zero and press the Enter button to return to Running Mode.

Programming the Meter

(Perform the following steps in order)

1. Determine the values of P20, P21, P22, and P25 from previous column.
2. Follow the procedure above to set up the various parameters.
3. Set parameter P95 to value 5.
4. Set parameter P20 to value determined from previous column.
5. Set parameter P21 to value determined from previous column.
6. Set parameter P22 to value determined from previous column.
7. Set parameter P25 to value determined from previous column.
8. Select parameter P0 (zero) and press the enter button to return to Running Mode.

Parameter	Description	Value Range (units)
20	Display Reference	1 - 9999 (Display Units)
21	Reference RPM	1 - 9999 (RPM)
22	Pulses per Revolution	2 for Varigear® Type VU/VZ01 - VU51 or 6 for Varigear® Type VU6 and Varimot® Type D16, D26, D36, D46
25	Decimal Point Position	0 - DP Disabled (XXXX) 1 - X.XXXX 2 - XX.XX 3 - XXX.X 4 - XXXX.

Electrical Connections

