



DEW POINT METER CIRCULAR CHART RECORDER

Model 4027 and 4027A

Item #115615 / Item #168522

INSTRUCTION MANUAL



March 2017
IMS Company
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Introduction

The 4027 and 4027A circular chart recorder is a 7 Day, one pen microprocessor-based circular chart recorder. The recorders provide reliable, convenient pen-drawn analog traces on preprinted 10 inch (250 mm) charts.

Both the chart and the pens are driven by stepper motors controlled by the microprocessor. Chart speed and range are configurable.

Connection

Depending on your model dew point meter, the recorder has a 15-foot cable with compatible connector which connects to the meter's analog out connection port. This is located on the face of the dew point meter above the unit's power switch and alarm lights. If your dew point meter does not have a matching connection, please consult the IMS technicians for assistance.

Specifications

Power Requirements:	115/230VAC 50/60Hz
Power consumption:	9 Watts
Chart Measurement Range:	-40 Deg F to +70 Deg F
Ambient Temperature:	32 Deg F to 131 Deg F (0 to 55 Deg C)
Sampling Rate:	Input sampled 2 times every 1.3 seconds
Chart Rotation:	7 Days
Maximum Error:	+/- 1 Deg F from Dew Point Monitor Display
Size:	14" H x 14" W x 6" D
Weight:	12 lbs.
Spare Chart Paper (100 Sheet Pack)	IMS# 115608
Spare Chart Pens (6 Pack)	IMS# 115611



Operation

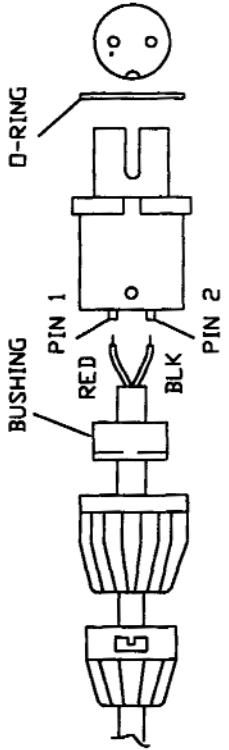
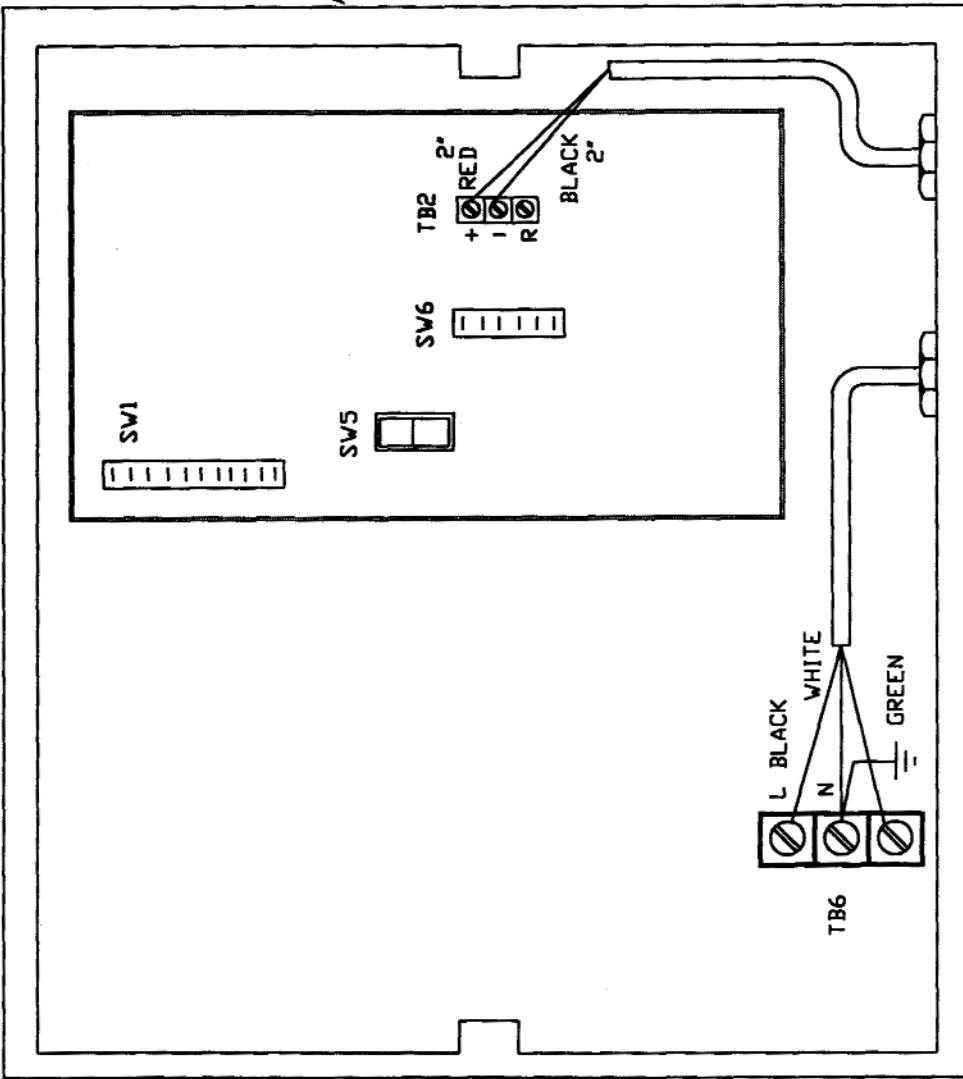
Note: All internal settings of the 4207 and 4207A are already pre-configured for you at the factory. However, for reference purposes, a summary of the setting is shown on “Table 1”.

When continuous dew point recording is desired, connect the recorder’s cable to your model dew point meters output jack and apply power. The recorder will track the reading shown on the dew point meter’s display.

Hardware Settings

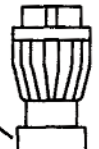
Hardware Pre-settings								
For 7-Day / 24 Hour, 115V use with 8072 or 8072A Dew Point Meter/Monitor								
Configuration Switches	SW1							
Run Switch	SW5							
Input Switch	SW6							
	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>
<u>SW1</u>								
(7 Day)	Off	Off	On	On	Off	Off	Off	Off
(24 Hour)	On	On	Off	Off	Off	Off	Off	Off
	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>		
<u>SW6</u>	Off	Off	Off	On	Off	On		

0700407
RECORDER
(COVER REMOVED FOR CLAIRTY)



DETAIL A

0300157
2 PIN CONNECTOR
SEE ASSY DETAIL A



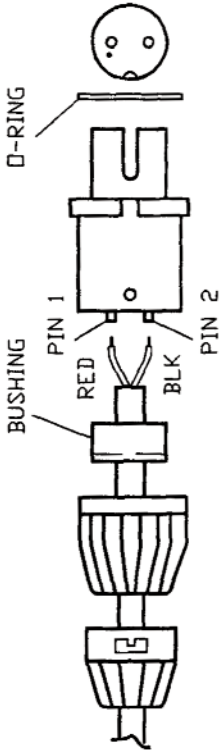
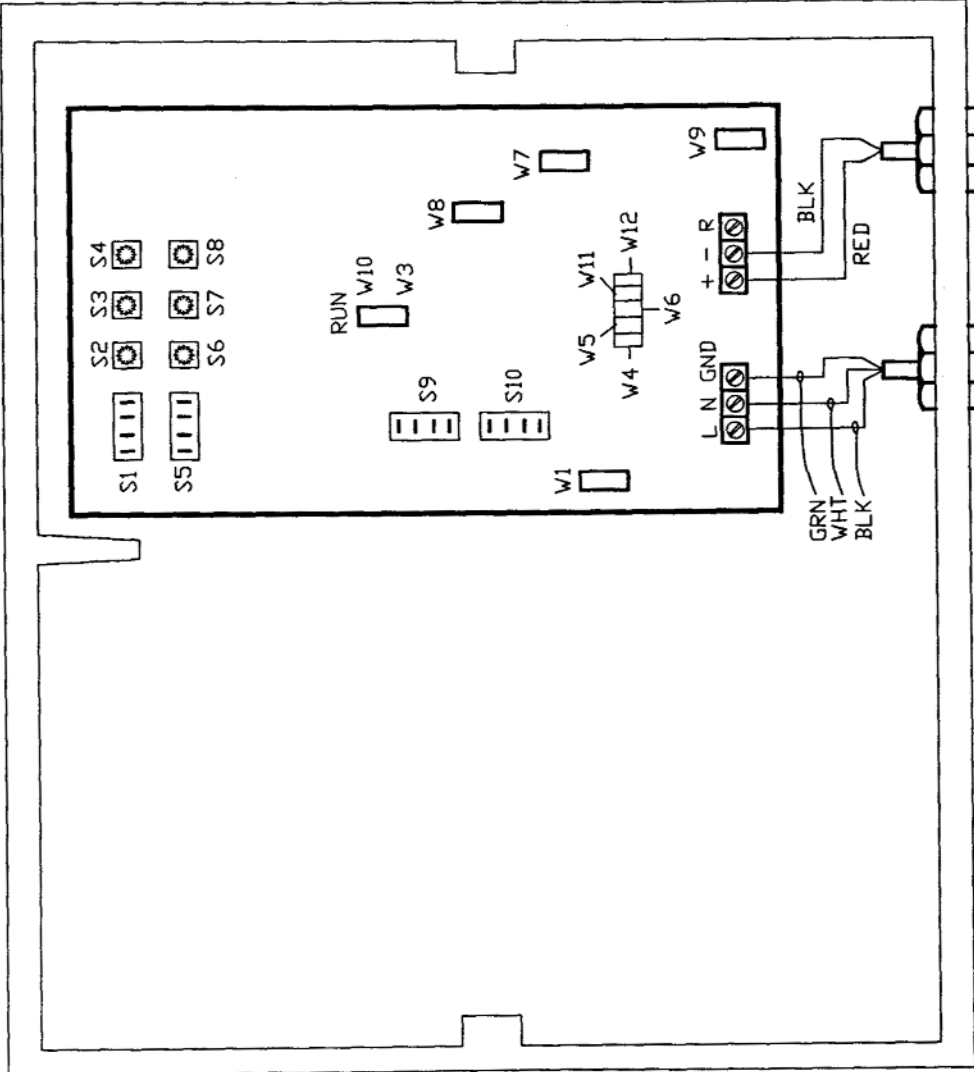
4400306
CABLE
(15.2 FT)

0800106
LIQUID TIGHT
FITTING (2)
(USE SUPER GLUE
ON MOUNTING THREADS)

4410103
LINE CORD

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DESIGNED BY	DATE
CHECKED BY	DATE
APPROVED BY	DATE
<p>SCALE: NONE</p>	
<p>IMS Engineering</p>	
<p>DEW POINT RECORDER ASSY AND WIRING DIAGRAM</p>	
CODE	REV. NO.
59505	B
SIZE	PAPER NO.
B	4207-1
QUANTITY	OF

0700407
RECORDER
(COVER REMOVED FOR CLAIRTY)



DETAIL A

0300157
2 PIN CONNECTOR
SEE ASSY DETAIL A



4400306
CABLE
(15.2 FT)

0800106
LIQUID TIGHT
FITTING (2)
(USE SUPER GLUE
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IMS Engineering	
DEW POINT RECORDER ASSY AND WIRING DIAGRAM	
CODE IDENT. NO.	SIZE PART NO. 4207
59505	B DRAWING NO. 4207
SCALE NONE	REVISION
	SHEET 1 OF 1