

**Weksler  
Model ECR153  
6" and 8"  
Microprocessor  
Based Chart  
Recorder**

- Blood Banks
- Environmental Chambers
- Sterilizers/Autoclaves
- Laboratories
- Food and Dairy
- Clean Rooms
- Cryogenics
- Industrial Ovens
- Water Treatment
- Incubators
- Pharmaceutical Equipment



**INSTRUMENT DIVISION** **DRESSER**  
NEWTOWN OPERATIONS

Bulletin WR-1

The Weksler ECR153 chart recorder offers unprecedented value for OEM and general purpose chart recorder applications. This chart recorder is microprocessor based for accurate recording of pressure or temperature in one or two channel configurations. Versatile input modules provide the capability to record 4/20mA, 0/1, 0/5, 1/5 Vdc output devices as well as standard RTD and thermocouples. Custom colors and logos are available for OEM applications. Its features are easily accessed from the front panel. A four-button keypad simplifies paper change, setpoint programming and zero adjustment, and it is user configurable for one, seven or 31 day operation. Optional 9 Vdc battery backup for RTD, TC and RH recorders, protects data during power outage. Battery status is readily visible via front panel mounted LEDs. It offers broad measurement capability through a variety of user installable input modules.

## Features

- Monitor and record temperature, RH, voltage and/or current
- Advanced microprocessor based design
- Optional battery backup
- Power status LEDs
- Rugged case construction
- High precision
- Fast response
- Simple four button user interface
- 110V/220V 50/60Hz AC power adapter
- Simple calibration
- Simple chart paper change
- Chart hold down tabs
- Versatile input modules
- Optional dual input, two pen configuration
- Optional alarm relays
- Switch selectable ranges

## General Applications

Blood Banks  
Environmental Chambers  
Sterilizers/Autoclaves  
Laboratories  
Food and Dairy  
Clean Rooms  
Cryogenics  
Industrial Ovens  
Water Treatment  
Incubators  
Pharmaceutical Equipment

## Special Applications

Clean Room Air Balance Monitoring  
Temperature and Relative Humidity



## SPECIFICATIONS

<b>Power</b>	110/220V, 50/60Hz AC Adapter with optional 9 Vdc battery backup
<b>Environmental</b>	Operating Temperature: -28 to 60°C (0 to 150°F) Storage Temperature: -20 to 140°F
<b>Housing</b>	Rugged molded ABS plastic design.  <b>Optional:</b> OEM and/or brand name color and identification
<b>Dimensions</b>	<b>Size:</b> 10" x 12" x 5" (8") 8" x 8.4" x 4.4" (6") <b>Weight:</b> Approx. 4 lbs with single pen
<b>Keypad</b>	<b>4 button:</b> Functions include push button for chart change function, pen position adjust. Optional relay set point adjust.
<b>Drive Motors</b>	DC Stepper with 600:1 ratio.
<b>Chart Speeds</b>	1, 7, 31 day operation via internal jumper selection
<b>Inputs</b>	<b>Temperature, Voltage or Current.</b> 0/1 Vdc conditioned input designed to accept sensor specific input modules. Standard

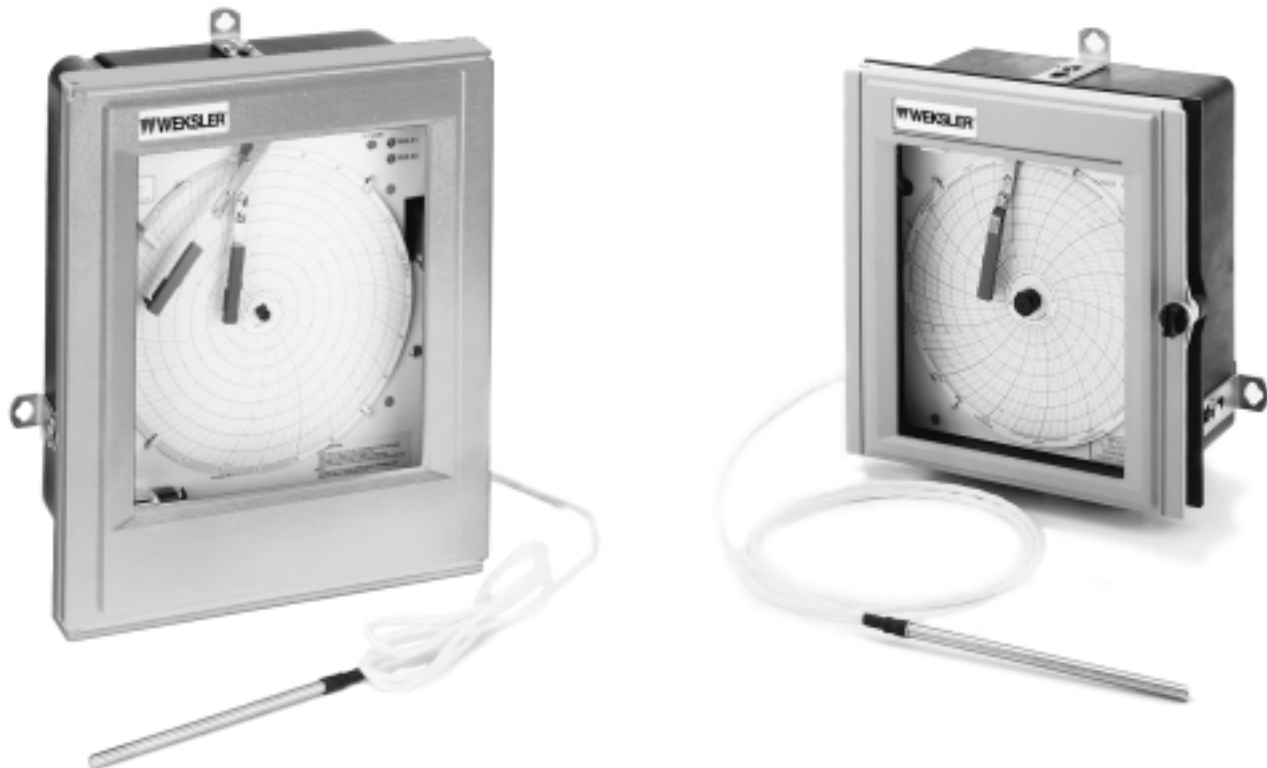
input is for Platinum RTD 100 Ohm  
(0.00385 ohms/°C) and 1000  
ohm 2, 3 or 4 wire, ISO 0385.  
Optional inputs include 4/20mA,  
0/1, 0/5 relative humidity 1/5  
Vdc, and thermo couple.

<b>Chart Sizes</b>	<b>6 or 8 inch.</b>
<b>Pens</b>	Ink cartridge types. 1 pen standard - 2 pen optional
<b>Engineering Units</b>	Celsius, Fahrenheit, Relative Humidity, Volts (zero @ center), Volts (zero @ outer edge)
<b>Accuracy (chart)</b>	Temperature accuracy: $\pm 0.3^{\circ}\text{C}$ (or resolution limit $\pm 1$ division) Voltage/Current Accuracy: $\pm 0.25\%$ of Span (or resolution limit $\pm 1$ division)
<b>Measurement Accuracy</b>	RTD class B $\pm 0.3^{\circ}\text{C}$ @ $0^{\circ}\text{C}$
<b>Chart Speed Accuracy</b>	$\pm 1.3\%$
<b>RTD</b>	Platinum RTD PT100 with 6" 316 SS tube, 6' 3 wire 24 AWG shielded teflon cable
<b>Special Application</b>	<i>Clean room air balance recorder</i> Single pen – integral pressure transducer 0.15 in. H <sub>2</sub> O differential. Other ranges available consult factory.

*Temperature/Relative Humidity  
recorder*  
Dual pen temperature and  
humidity, IC temperature/  
humidity sensor, local or remote  
mount to 10' max.

### Optional Features

<b>Nonstandard Ranges</b>	Consult factory
<b>Battery Backup Optional</b>	9 volt battery backup flashing mode to indicate power failure or low battery.
<b>DPDT Relays</b>	Single DPDT or dual latching alarm relays .3A 125 Vac, 1A 30 Vdc. Setpoint value programmable via front panel stored in EEPROM memory.
<b>Input Modules</b>	RTD, RH, thermocouple 4/20 mA, 0/1 Vdc Input, 0/5 Vdc Input, 1/5 Vdc Input
<b>Dual Function</b>	Dual input/two pen configuration.
<b>Dual Range</b>	Switch selectable dual range for RTD.



## Charts For Temperature Recorders

Chart Size	Period of Revolution	Chart No.	Range	Divs.	Charts	
					Gas F	C
6 Inch	24-Hour	W-150 + 100-6* Rev.	-150 to 100°	5°	✓	✓
		W370-130-6	-130 to 370°	10°	✓	✓
		W120-30-6	-30 to 120°	2°	✓	✓
		W120-20-6	-20 to 120°	5°	✓	✓
		W60-0-6	0 to 60°	1°	✓	✓
		W100-0-6	0 to 100°	2°	✓	✓
		W200-0-6	0 to 200°	5°	✓	✓
		W300-0-6	0 to 300°	5°	✓	✓
		W180 + 30-6	30 to 180°	5°	✓	✓
	7-Day	W7-150 + 100-6* Rev.	-150 to 100°	2°	✓	✓
		W7-100 + 38-6* Rev.	-100 to 38°	2°	✓	✓
		W7-60-40-6	-40 to 60°	2°	✓	✓
		W7-120-20-6	-20 to 120°	5°	✓	✓
		W7-38-17-6	-17 to 38°	1°	✓	✓
		W7-60-0-6	0 to 60°	1°	✓	✓
		W7-100-0-6	0 to 100°	2°	✓	✓
		W7-200-0-6	0 to 200°	5°	✓	✓
		W7-300-0-6	0 to 300°	5°	✓	✓
8 Inch	24-Hour	W40 + 80-8* Rev.	-40 to 80°	2°	✓	✓
		W110-40-8	-40 to 110°	2°	✓	✓
		W100-20-8	-20 to 100°	2°	✓	✓
		W60-0-8	0 to 60°	1°	✓	✓
		W100-0-8	0 to 100°	2°	✓	✓
		W120-0-8	0 to 120°	2°	✓	✓
		W150-0-8	0 to 150°	2°	✓	✓
		W200-0-8	0 to 200°	5°	✓	✓
		W250-0-8	0 to 250°	5°	✓	✓
	7 Day	W300-0-8	0 to 300°	5°	✓	✓
		W500-0-8	0 to 500°	10°	✓	✓
		W1000-0-8	0 to 1000°	20°	✓	✓
		W7-40 + 80-8* Rev.	-40 to 80°	2°	✓	✓
		W7-110-40-8	-40 to 110°	2°	✓	✓
		W7-30 + 70-8* Rev.	-30 to 70°	2°	✓	✓
		W7-40-10-8	-10 to 40°	1°	✓	✓
		W7-110-10-8	-10 to 110°	2°	✓	✓
		W7-110-10-8½**	-10 to 110°	2°	✓	✓
W7-50-0-8	0 to 50°	1°	✓	✓		
W7-60-0-8	0 to 60°	1°	✓	✓		
W7-80-0-8½**	0 to 80°	2°	✓	✓		
W7-100-0-8	0 to 100°	2°	✓	✓		
W7-100-0-8	0 to 100°	2°	✓	✓		
200-50-8 }***	{ 50 to 200° }	3°	✓	✓		
W7-120-0-8	0 to 120°	2°	✓	✓		
W7-150-0-8	0 to 150°	2°	✓	✓		
W7-300-0-8	0 to 300°	5°	✓	✓		
W7-500-0-8	0 to 500°	10°	✓	✓		

\*Reverse graduations, i.e. lowest point in range at outer edge of chart.

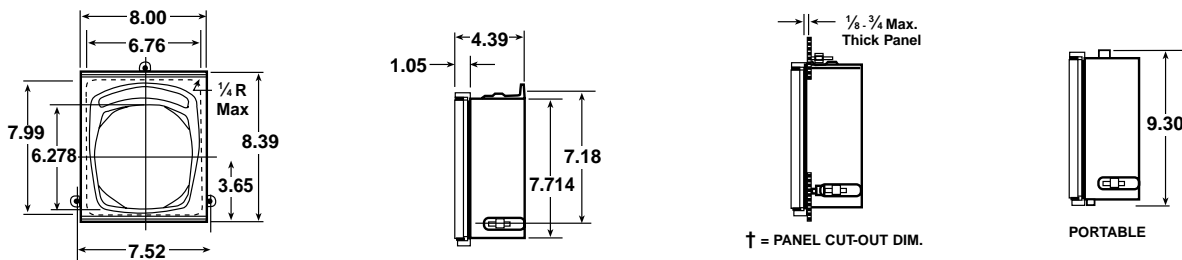
\*\*1/2" diameter hole.

✓Charts Available.

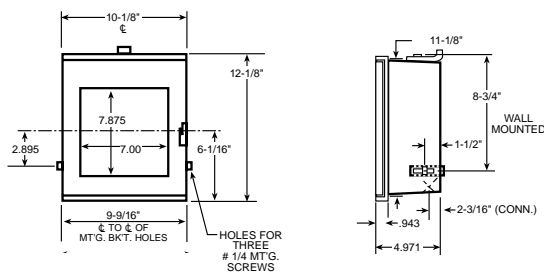
††Combination temperature and pressure chart.

NOTE: REORDER CHARTS ONLY (WITHOUT RECORDER) FROM GRAPHIC CONTROLS. USA: 1-800-669-1535; CANADA 1-800-267-9498; INTERNATIONAL 1-716-847-7582.

### 6" Recorder Case Dimensions



### 8" Recorder Case Dimensions



FLUSH MOUNTED—PANEL CUT-OUT DIMENSIONS 9-1/16" WIDE x 11-1/4" HIGH  
5/8" R. MAX AT CORNERS

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