

Measurement	Instrument	Location
Outdoor Temperature	Vaisala Humitter	North Side, 15 ft above ground
Outdoor Humidity	Vaisala Humitter	North Side, 15 ft above ground
Wind Speed	RM Young wind vane	5 ft above roof peak
Wind Direction	RM Young anemometer	5 ft above roof peak
Solar Radiation (horizontal)	LiCor LI200SZ	peak of roof
Mains water temperature	Type T thermocouple	pipe surface under insulation
Water temperature: DHW from preheat tank	Type T thermocouple	pipe surface under insulation
Water temperature: DHW from tempering valve	Type T thermocouple	pipe surface under insulation
Water temperature: DHW supply	Type T thermocouple	pipe surface under insulation
Water temperature: DHW return	Type T thermocouple	pipe surface under insulation
Fluid temperature: from aux. tank to main loop	Type T thermocouple	pipe surface under insulation
Fluid temperature: from main loop to aux. tank	Type T thermocouple	pipe surface under insulation
Fluid temperature: to collectors	Type T thermocouple	pipe surface under insulation
Fluid temperature: from collectors	Type T thermocouple	pipe surface under insulation
Fluid temperature: to heating load	Type T thermocouple	pipe surface under insulation
Fluid temperature: from heating load	Type T thermocouple	pipe surface under insulation
Fluid temperature: boiler 1 to main loop	Type T thermocouple	pipe surface under insulation
Fluid temperature: boiler 1 from main loop	Type T thermocouple	pipe surface under insulation
Fluid temperature: boiler 2 to main loop	Type T thermocouple	pipe surface under insulation
Fluid temperature: boiler 2 from main loop	Type T thermocouple	pipe surface under insulation
Gas Use: Boiler 1	pulse-initiating gas meter	in-line in boiler room
Gas Use: Boiler 2	pulse-initiating gas meter	in-line in boiler room
Water Flow: DHW	turbine meter	in-line in boiler room
Water Flow: DHW recirc. loop	turbine meter	in-line in boiler room
Fluid Flow: Boiler 1	turbine meter	in-line in boiler room
Fluid Flow: Boiler 2	turbine meter	in-line in boiler room
Fluid Flow: Main loop to Aux. Tank	turbine meter	in-line in boiler room
Fluid Flow: Main loop to heating load	turbine meter	in-line in boiler room
Fluid Flow: collectors	turbine meter	in-line in boiler room
Electrical Energy: Unit 1	Watt Node	breaker box (boiler room)
Electrical Energy: Unit 2	Watt Node	breaker box (boiler room)
Electrical Energy: Unit 3	Watt Node	breaker box (boiler room)
Electrical Energy: Unit 4	Watt Node	breaker box (boiler room)
Electrical Energy: Boiler Room	Watt Node	breaker box (boiler room)
Electrical Energy: HRV 4	Watt Node	HRV, Unit 4
Indoor Temperature: Unit 1	RTD	Near t'stat on wall
Indoor Temperature: Unit 2	RTD	Near t'stat on wall
Indoor Temperature: Unit 3	RTD	Near t'stat on wall
Indoor Temperature: Unit 4	RTD	Near t'stat on wall
Temperature: HRV4 Fresh In	Thermistor	HRV4 duct
Temperature: HRV4 Fresh Out	Thermistor	HRV4 duct
Temperature: HRV4 Stale In	Thermistor	HRV4 duct
Temperature: HRV4 Stale Out	Thermistor	HRV4 duct
Status: HRV 1	DC-output CT	HRV power in
Status: HRV 2	DC-output CT	HRV power in
Status: HRV 3	DC-output CT	HRV power in