

Market Overview

ACR data loggers are recognized globally as the premium instrument of its kind and proven performers in a wide range of applications. The following represents the core markets in which ACR serves and the typical applications requiring the use of our data loggers.

HVAC

Temperature/Relative Humidity
Building Commissioning • Building Automation System Performance • Indoor Air Quality Monitoring and Recording
HVAC Systems Verification • Temperature Analysis • Moisture Analysis

Pressure
Building Pressurization • Mechanical Components Troubleshooting • Air-Flow Measurement
Odor Migration Analysis

Current/Voltage
Testing and Balancing • Troubleshooting HVAC Systems • Electrical Load Profiling
Energy Management Systems Audit
Energy Consumption Monitoring and Recording

Electrical/Energy

Power Quality
Electronic and Medical Equipment Auditing • Computer Server Room Monitoring • UPS and TVSS Equipment Monitoring • Predictive Maintenance

Current/Voltage
Single-Phase Systems' Balancing • Energy Consumption Monitoring • Electrical Load Profiling
Energy Auditing

Food & Beverage

Temperature
Transportation and/or Storage Monitoring • Food Cool-Down or Heating Profiling • Liability Management • Refrigeration Systems Verification • Perishable Goods Monitoring • Defrost Cycle Performance Quality Assurance

Current/Voltage
Equipment and Machinery Performance Audit

Process Signals
Processing Plant Audit • Systems Verification • Quality Assurance

Pulse
Equipment and Machinery Sequence Monitoring

Industrial

Temperature
Production Characteristics Monitoring (i.e. concrete curing, paint drying, etc.)
Product Storage Conditions • Ambient Conditions

Current/Voltage
Equipment and Machinery Performance Audit

Pressure
Pneumatic Controls and/or Equipment Monitoring • Manufacturing Processes Audit

Process Signals
Manufacturing or Processing Plant Audit
Plant Systems Verification • Quality Assurance • Shock, Flow, and/or Vibration Monitoring • System Profiling

Pulse
System Profiling • Pulse Counting (i.e. water flow, wind/air speed, etc.)

Pharmaceutical/Laboratory

Temperature/Relative Humidity
Data Validation • Critical Environment Monitoring • Clean Room and Metrology Management • Environmental Testing • Indoor Air Quality Monitoring and Recording

Pulse
System Profiling • Pulse Counting (i.e. water flow, wind/air speed, etc.)

Government/Military

Temperature and/or Relative Humidity
Munitions Storage and Transportation Monitoring • Environmental and Comfort Conditions Monitoring • Survival Suit Testing

Pressure
Cabin Pressure Monitoring



Proven Data Logging Solutions



ACR Systems is the original manufacturer and pioneer of portable data loggers with an extensive product line to meet a variety of customers' needs. From low-cost, single channel data loggers to high-end multi-channel and multi-functioning data loggers, ACR has the right product for you.

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ISO 9001:2000

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	Smartbutton	JR1000	TRH1000	Nautilus 85 / 135	PowerWatch	Owl 100	Owl 200	Owl 300	Owl 400	Owl 500
Description	1 channel temperature data logger	1 channel temperature data logger	2 channel temperature and relative humidity data logger	1 channel waterproof temperature data logger	Single Phase Voltage Disturbance recorder	1 channel temperature data logger	1 channel temperature data logger	1 channel AC current data logger	1 channel Process Signal (DC Voltage) data logger	1 channel Process Signal (4-20mA) data logger
Inputs	1 internal	1 internal	1 internal temperature 1 internal relative humidity	1 internal temperature	1 internal	1 internal temperature	1 external temperature	1 external AC current	1 external voltage Vdc	1 external mA
Measuring Range	-40°C to +85°C	-40°C to +85°C	-40°C to +70°C 0-100% (non condensing)	-40°C to +85°C / +10°C to +135°C		-40°C to +70°C	-60°C to +255°C	0 – 500 Amps	0-38,4Vdc	0-24mA DC
Memory Size	2 KB	32 KB	64 KB	32 KB	32kB	32 KB	32 KB	32 KB	32 KB	32 KB
# of Readings	2048	244800	65280	244800	4000 events	32767	32767	32767	32767	32767
Resolution	8 bit	8 bit	8 bit	8 bit	8 bit	8 bit	8 bit	8 bit	8 bit	8 bit
Sampling Rate	1 to 255 min	8 sec to 34 min	8 sec to 34 min	8 sec to 34 min	00,4sec to 34 min	0,2sec to 12 hours	0,2sec to 12 hours	0,2sec to 12 hours	0,2sec to 12 hours	0,2sec to 12 hours
Sampling Method	Continuous or Stop when full	Continuous or Stop when full	Continuous or Stop when full	Continuous or Stop when full	Continuous or Stop when full	Continuous or Stop when full	Continuous or Stop when full	Continuous or Stop when full	Continuous or Stop when full	Continuous or Stop when full
Battery Life	10 years	5 years	5 years	10 years / 3 years	10years	10 years	10 years	10 years	10 years	10 years
Software and Communication Cable	Smartbutton reader and interface cable	TrendReader Express	TrendReader Express	TrendReader Express and interface cable Stainless steel or	TrendReader 2 Interface package	TrendReader 2 optical light link interface cable	TrendReader 2 optical light link interface cable	TrendReader 2 optical light link interface cable	TrendReader 2 optical light link interface cable	TrendReader 2 optical light link interface cable
Enclosure	Stainless steel			Aluminium	Noryl	Noryl plastic	Noryl plastic	Noryl plastic	Noryl plastic	Noryl plastic
Typical Applications	Pharmaceuticals Packaging	Heating Ventilation Transportation	Air quality monitoring	Food transportaion / Monitoring of sterilization cycles		Heating and Ventiation Food Process Transportation	Heating and Ventiation Food Process Transportation	Current monitoring, Power consumption, On/Off time monitoring	Pressure Level Flow	Pressure Level Flow

										
Description	2 channel temperature data logger	4 channel temperature and relative humidity datalogger	8 channel AC Current and Voltage data Logger	4 channel pressure, temperature and relative humidity datalogger	3 channel temperature data logger	8 channel temperature data logger	8 channel process signal data logger	8 channel temperature data logger	2 channel Pulse datalogger	4 channel temperature RTD datalogger
Inputs	1 internal temperature 1 external temperature (thermistor)	1 internal temperature 1 internal relative H 1 external temperature and 1 external rH	1 internal temperature 4 for AC Current 3 for AC Voltage	1 internal temperature 1 for pressure 1 for relative humidity 1 for temperature / resistance or switch status	1 internal temperature 2 external temperature (Thermocouple)	1 internal temperature 7 external temperature (Thermocouple)	1 internal temperature 0-2.5V 0-5V 0-10V 0-200mV 0-25mA	1 internal temperature 7 external temperature (thermistor)	2 external-generated pulse signal and dry switch contact	1 internal temperature 3 external temperature (RTD probes)
Measuring Range	-40°C to +70°C -60°C to +255°C	-40°C to +70°C 0% - 95%	-40°C to +70°C 0 to 500 A 0-5V or 480V*	2" - 150psi	-40°C to +70°C -200°C to +1450°C (J, K, S, T, E)	-40°C to +70°C -200°C to +1450°C (J, K, S, T, E)	-40°C to +70°C see inputs	-40°C to +70°C -60°C to +255°C	4095 pulses/sample period	-40°C to +70°C -230°C to +300°C
Memory Size	32 KB, 128 KB, 1.5 MB	128 KB	32 KB 128 KB 1.5 MB	32 KB 128 KB	32 KB 128 KB	32 KB 128 KB 1.5 MB	32 KB 128 KB 1.5 MB	32 KB 128 KB 1.5 MB	32 KB 128 KB	128 KB
# of Readings	32767 87000 1048000	87000	32767 87000 1048000	32767 87000	32767 87000	32767 87000 1048000	32767 87000 1048000	32767 87000 1048000	32767 87000	87000
Resolution	12bit									
Sampling Rate	0.04 sec to 34 min									
Sampling Method	Continuous or Stop when full									
Battery Life	10years									
Software and Communication Cable	TrendReader 2 Interface package									
Enclosure	Noryl									
Typical Applications	Heating Ventilation Food process Transportation	Heating Ventilation Food process Transportation	Power Consumption monitoring, On/Off time monitoring,	Heating Ventilation Food process Transportation	Heating Ventilation Food process Transportation	Heating Ventilation Food process Transportation	Process Signal Pressure Level Flow	Heating Ventilation Food process Transportation	Heating Ventilation Food process Transportation	Heating Ventilation Food process Transportation