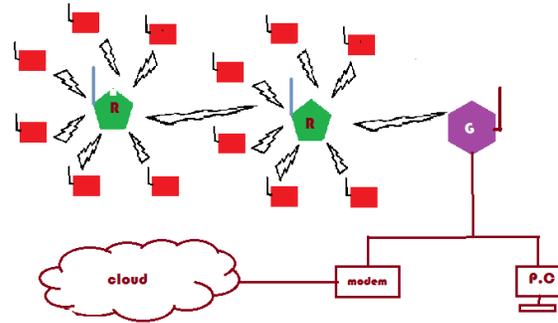


# Temperature Monitoring Cost Savings

By: Douglas Wright, President

Far too often we are so busy that we just look at the nickels and dimes of our spending instead of looking at the big picture. So when it comes to monitoring temperature it is very easy to state nothing will be cheaper than a wall mounted [thermometer](#) or using [pocket thermometers](#). If you step back and look at the big picture you will find that is not so. So how much does that manual record keeping actually cost your company? When you add in labour to run about, record each reading and then write and file reports, you might be surprised at the real cost even if you are only recording temperature twice per day at each point.



Also as food safety regulations tighten, more auditors are frowning or even refusing manual y temperature records. On top of this you have to consider what can happen over a period of 12 hours. Temperatures in an average cooler can shoot in and out of range several times in the time scale so in reality 2X per day is not near enough. But who has the time to do even more frequent monitoring; you are already too busy as it is? So an automated system logging temperatures is ideal. We have excellent [LCD display Dataloggers](#) that can be wall mounted and downloaded weekly or monthly and the display will show if there have been excursions. These cost little more than an average wall thermometer and the electronic records can be easily analyzed and records printed using easy to use software.



[Wireless Scigiene Premier Cloud Based Software](#)

But what will happen when the cooler fails and no one is around? You are still in the reactive mode and potentially have to dispose of a cooler full of products. At the very least you have a lot of extra testing and reports to do.

The real solution is a [Scigiene Wireless System](#). These are battery powered [waterproof sensors](#) that can be mounted anywhere and can even be supplied with an unlimited range of probes and model can withstand from -40 to 100C with probes going well beyond that. These will log readings and allow you to print reports and will send alerts to any smartphone, tablet or PC; so that you can finally take the proactive approach that management expect Q.A. to take.

I know cost is a factor. Or is it? The truth is this will be one of the most financially astute moves any Q.A. person could make.

See the example costing chart below: for a mid-sized plant using 9 temperature sensors

Wireless System

9 x [RFI-0230 Industrial Waterproof Temperature Sensor](#)

1 x [RFR-0400-12 Premier - Annual Software License Network w/ up to 12 sensors](#)

2 x [RFR-0515 Wireless RF Repeater](#)

1 x [RFR-0526 Wireless Ethernet Receiver](#)



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## Scigiene Corp. Costing Worksheet

### COSTS OF MANUAL REPORTING, CHART RECORDERS & WIRELESS SYSTEMS

	Manual Recording	Chart Recorders	Wireless	Wired
Manual Readings Recorded Each Day	2	2	2	2
Average Wage of Employees (\$/Hr)	15	15	15	15
Number of CCP Points Monitored?	9	9	9	9
Chart Length (i.e. 1 day, 7 day ?)	0	7	0	0
Cost of each Chart (in \$)	0	0.5	0	0
Days/week plant in operation	7	7	7	6
Avg. Equipment Cost *	\$50	\$600	\$255.56	\$675.00
Initial equipment cost	\$450	\$5,400	\$2,300.00	\$6,075.00
Cost of Manual Recording **=	\$364.00	\$234.64	\$0.00	\$0.00
1 <sup>st</sup> Year Equipment cost **** =	\$409.00	\$774.64	\$2557.00	\$607.50

### AVERAGE MONITORING

COSTS/YR/PT	\$773.00	\$1,009.29	\$284.00	\$607.50
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\* low end cost of equipment and installation for wired system

\*\* average of at least 5 minutes to take reading record it move to next point and later record or file data

\*\*\*\* assumptions made based on average 10 year life of Sensor

As you can see from the spread sheet the [Scigiene Wireless System](#) is far less costly in the first year. After that the cost drops even more. We only used \$15/hour for the labour rate so in fact your labour costs will be much higher making our relative savings even greater.

The result is therefore over \$500 per month by installing the [Scigiene Wireless System](#). And the bigger your facility the greater the savings will be.

No matter how you look at it this is by far the best and most cost effective route to go. Please contact us today for a cost analysis of your facility and start saving and getting better results. And the time you save can be used to implement all of the other programs you never seem to have time for. Let Scigiene help you today.



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