



THE QUEEN'S AWARDS
FOR ENTERPRISE
2018



LEGIONNAIRES' TEMPERATURE MONITORING KIT

Specialists in the design & manufacture of temperature measuring equipment for industry



WHAT IS LEGIONNAIRES' & HOW TO PREVENT IT...

LEGAL RESPONSIBILITIES & ASSESSING THE RISKS

If you are the employer or person in control of premises, you must organise a risk assessment from exposure to legionella. The revised Approved Code of Practice (ACOP) Legionnaires' disease: Control of Legionella Bacteria in water systems (L8) issued by the Government's Health and Safety Executive (HSE) significantly extends the scope of its guidance on control of legionella bacteria in water.

The code applies to all hot and cold water systems in the workplace regardless of their capacity, i.e. the lower limit of 300 litres previously used to exclude domestic systems, no longer applies. Whilst domestic systems may represent a risk, the code only applies to a risk arising from a work activity. This means that all employers, who manage premises with hot/cold water systems and/or wet cooling systems, have a legal responsibility to identify any risk of contamination and to prevent or control it. These records have to be kept for a minimum of five years.

WHAT IS LEGIONNAIRE'S DISEASE?

Legionnaires' disease is a potentially fatal form of pneumonia. The cause of the disease is a bacterium called **legionella pneumophila**.

HOW IS IT CAUGHT?

Legionnaires' disease is caught by inhaling small droplets of water suspended in the air which contain the legionella bacterium, e.g. spray from showers and taps.

WHAT ARE THE SOURCES OF LEGIONELLA BACTERIUM?

The legionella bacterium is found mainly in stagnant water, e.g. ponds and rivers or buildings containing cooling tower, evaporation condensers, air conditioning and industrial cooling systems, humidifiers, spa baths and hot and cold water systems.

WHAT AREAS ARE MOST VULNERABLE?

A wide range of workplaces, but particularly residential accommodation managed privately or by organisations, e.g. local authorities, universities, hospitals, nursing and care homes, housing associations, charities, hostels, private landlords, managing agents, hoteliers and holiday accommodation providers, including guest houses.

WHO IS MOST AT RISK?

People most at risk are people over 45, smokers and heavy drinkers, diabetics and people who are already ill, particularly with chronic diseases or whose immune system is impaired.

HOW USING A THERMOMETER CAN HELP CONTROL LEGIONELLA IN WATER?



Incorrect water temperature is a key risk factor for legionella growth. The legionella bacteria multiply in water at temperatures between 20 to 45 °C. A typical method of control is to store hot water above 60 °C and distribute it at above 50 °C (care must be taken to prevent scalding). Cold water should be kept below 20 °C.

'Incorrect water temperature is a major contributor for legionella growth'

risk areas

residential accommodation
hotels schools
universities care homes
hostels colleges dentists
nursing homes
guest houses holiday homes
business premises
hospitals campsites
leisure centres



LEGIONNAIRES' THERMOMETER KIT

- Includes Therma 1 high accuracy thermometer & 3 probes
- Ideal for routine water temperature monitoring
- FREE traceable certificate of calibration
- Compact & robust design

The Legionnaires' temperature monitoring kit represents excellent value for money as each one is supplied in a FREE carrying case and also includes a FREE mini tub of 70 QAC free Probe Wipes.

The kit includes a Therma 1 digital thermometer which is a rugged and easy to use instrument that operates through the range of -99.9 to 1372 °C with a 0.1 °C or 1 °C resolution. The thermometer is housed in a robust ABS case that contains Biomaster Antimicrobial Technology to reduce bacterial growth.

The Therma 1 features a large, easy to read, LCD display with open circuit 'Err', hold and low battery indication and is powered by three AAA batteries that give a minimum of five years battery life. The unit will power off automatically after ten minutes, maximising battery life. This feature can be disabled by the user, if required.



Penetration probe (123-160)

LEGIONNAIRES' THERMOMETER KIT

Each kit contains:

- Therma 1 thermometer (221-041)
- Penetration probe (123-160)
- Precision ribbon surface probe (123-030)
- PTFE wire probe (133-362)
- Water resistant countdown timer (806-150)
- Mini tub of 70 Probe Wipes (836-022)
- ABS carrying case (834-150)



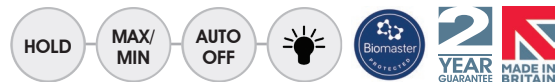
LEGIONNAIRES' KIT



OPTIONAL ACCESSORIES:



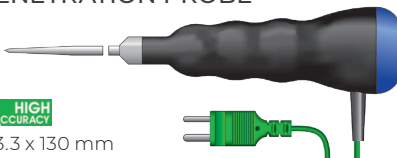









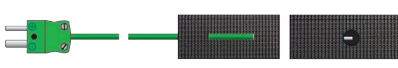
- Protective silicone boot - the Therma series is splashproof to IP64 when used in conjunction with this boot. Various colours are available - visit our website or contact our sales office
- Stainless steel wall bracket (screws not supplied) & protective black silicone boot (832-053)

Order code	Description	£ each
860-860	Legionnaires' thermometer kit	140.00
830-227	Protective silicone boot - black	6.00
832-053	S/steel wall bracket & boot	13.50



Specification	Therma 1
Range 0.1 °C	-99.9 to 299.9 °C
Range 1 °C	300 to 1372 °C
Resolution	0.1 °C & 1 °C
Accuracy	±0.4 °C ±0.1 %
Battery & life	3 x 1.5 volt AAA - 10000 hours
Sensor type	K thermocouple
Display	12 mm LCD
Dimensions	25 x 56 x 128 mm
Weight	130 grams
FREE traceable certificate of calibration included	

HAND HELD TYPE K OR T THERMOCOUPLE PROBES

		Order code	£ each
PENETRATION PROBE   $\text{Ø}3.3 \times 130 \text{ mm}$	This stainless steel penetration probe is strong, versatile and ideal for measuring liquids and semi-solids. <ul style="list-style-type: none"> ● Response time less than 2 seconds ● Probe temperature range -75 to 250 °C 	123-160	29.50
		323-160 (coiled lead)	30.50
PENETRATION PROBE   $\text{Ø}3.3 \times 130 \text{ mm}$	This stainless steel, waterproof penetration probe is strong, versatile and incorporates a heavy duty handle with a colour-coded end cap. Suitable for liquids and semi-solids. <ul style="list-style-type: none"> ● Response time less than 3 seconds ● Probe temperature range -75 to 250 °C 	● 143-161	32.00
		● 143-162	32.00
		● 143-164	32.00
		● 143-165	32.00
		○ 143-166	32.00
		● 143-167	32.00
FAST RESPONSE PROBE   $\text{Ø}3.3 \times 100 \text{ mm}$	This reduced tip ($\text{Ø}1.8 \times 25 \text{ mm}$), fast response, stainless steel penetration probe is ideal for liquids or semi-solids i.e. soft rubber and other similar materials. <ul style="list-style-type: none"> ● Response time less than 2 seconds ● Probe temperature range -75 to 250 °C 	123-159	32.50
		323-159 (coiled lead)	33.50
RIBBON SURFACE PROBE  $\text{Ø}15 \times 130 \text{ mm}$	This precision, ribbon surface probe utilises flat ribbon technology that ensures a fast, accurate response with minimal heat loss. A right-angled version is also available. <ul style="list-style-type: none"> ● Response time less than 1 second ● Probe temperature range -75 to 250 °C 	123-030	40.00
		123-032 (right-angled)	44.50
PTFE WIRE PROBE   $\text{Ø}1.5 \times 1000 \text{ or } 2000 \text{ mm}$	This PTFE insulated, exposed junction wire probe is suitable for measuring the air temperature in fridges, freezers, ovens etc. Extended probe lengths over two metres are available upon request. <ul style="list-style-type: none"> ● Response time less than 1 second ● Probe temperature range -75 to 250 °C 	133-362 (1000 mm)	9.00
		133-363 (2000 mm)	10.00
HEAVY DUTY PTFE WIRE PROBE   $\text{Ø}2.4 \times 1000 \text{ or } 2000 \text{ mm}$	This heavy duty, PTFE insulated wire probe is ideal for measuring the air temperature in fridges, freezers, ovens etc. Extended probe lengths over two metres are available upon request. <ul style="list-style-type: none"> ● Response time less than 1 second ● Probe temperature range -75 to 250 °C 	133-372 (1000 mm)	12.50
		133-373 (2000 mm)	14.50
MAGNET SURFACE PROBE  $\text{Ø}24 \times 28 \text{ mm}$	This magnet probe is supplied with a 500 mm PTFE lead. Ideal for monitoring the surface temperature of ferrous metals, e.g. radiators or hotplates. <ul style="list-style-type: none"> ● Response time less than 30 seconds ● Probe temperature range -20 to 80 °C 	133-017	33.50
VELCRO PIPE PROBE  $20 \times 500 \text{ mm}$	This 500 mm wrap-around velcro pipe probe is suitable for both medium and large pipe temperature measurement in the HVAC industry. Supplied with a two metre lead. <ul style="list-style-type: none"> ● Response time less than 30 seconds ● Probe temperature range -10 to 100 °C 	133-080	26.00

For more information and our full range of probes and accessories please call our sales office or visit our website. Alternatively, if you require a special probe design, contact our technical sales team. All prices quoted are valid until 31st December 2021 and exclusive of carriage and VAT at the standard rate.



British Manufacturer

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