Glow•worm

Controls
Launch Pack

This launch pack is full of information all about the current range of Glow-worm controls and our brand-new controls, MiPro Sense and MiSet

Glow-worm's innovative collection of heating controls communicates intelligently with Glow-worm boilers using our eBUS protocol. This enables Glow-worm systems to deliver optimal efficiency.

Glow-worm offers the whole range of heating controls, from a simple room thermostat up to an internet connected smart control, so there is a solution for every home.
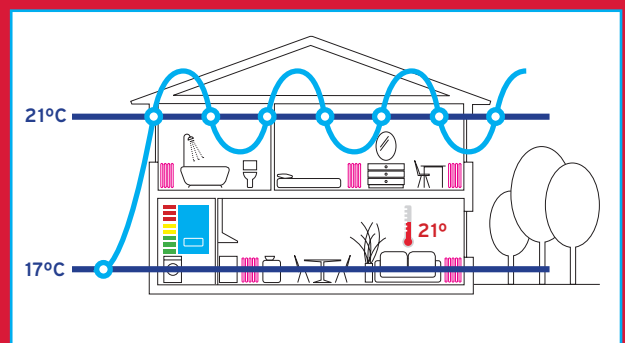
Glow•worm

eBUS

Glow-worm's eBUS protocol allows our controls to fully communicate with Glow-worm boilers. With this communication, the system can operate at maximum efficiency by modulating the boiler output to ensure it only ever uses the energy that is required.
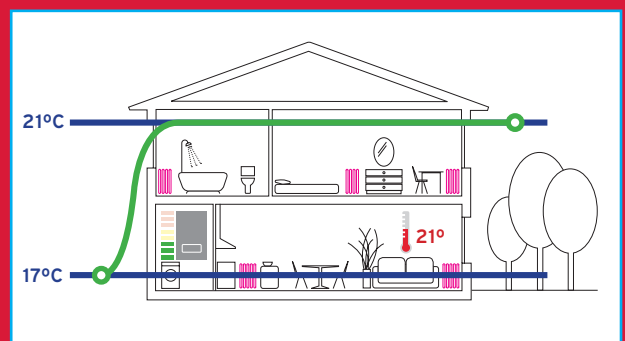
Load compensation

Traditional thermostats work by telling the boiler to work at 100% until the room thermostat reaches the required temperature and it will continue to turn on and off to try to maintain the set temperature.

Glow-worm's controls have enhanced load compensation, meaning they will adjust the temperature of the water entering the heating system. By communicating with a room thermostat via eBUS, the boiler can calculate the amount of energy needed to reach the desired temperature. When necessary, the boiler will work at a reduced output to use the minimum amount of energy.

Traditional thermostat

Glow-worm controls

Glow•worm

Weather compensation

Weather compensation considers the external environment to adjust the flow temperature from the boiler.

If the temperature is low or dropping, the flow temperature from the boiler will be increased. Likewise, if the temperature is high or rising, the flow temperature from the boiler will be decreased. This ensures the boiler is always operating at it's most efficient.

Our current range of controls are able to weather compensate when an outdoor weather sensor is fitted.

The MiGo smart control uses data from local weather stations to weather compensate the system.

GWLFTB2BTECH0120

Glow•worm

Climastat

Load compensating control

Frost protection

Easy to use

Heating control

Key features and benefits

Boiler plus compliant
When the Climastat is operated with a mechanical timer often fitted with a Glow-worm boiler, this ensure a simple and low cost solution to complying with boiler plus

Enhanced load compensation
The Climastat uses enhanced load compensation to adjust the output of the Glow-worm boiler, ensuring it only uses the energy it needs to

Service, maintenance and fault indicator
Appliance service, fault and maintenance indication is displayed on the screen

Clear digital display
With 0.5°C temperature intervals

Wide range of temperatures for your comfort
The room temperature can be adjusted between 5 - 30°C

Simple installation often utilising existing cable
Two core low voltage wired connection for simplicity

Technical specification

Technical data	Unit	Climastat
Article number		0020035402
Height	mm	96
Width	mm	96
Depth	mm	30
Power supply		eBUS 24V
Minimum cross-section of the eBUS and sensor wire	mm^2	0.75
Current consumption	mA	≤ 17
Level of protection		IP20
Adjustable temperature range	˚C	5 - 30
Maximum ambient temperature	˚C	50

Boiler Plus compatibility

	Combi					
Control	Time and temperature control	Load compensation	Weather compensation	Automated smart control	ErP benefit	Boiler Plus
Climastat & mechanical timer	✓	✓			+3%	✓
Climapro$_1$ / RF	✓	✓	✓*		+4%	✓
Climapro$_2$ RF	✓	✓	✓*		+4%	✓
MiSet / RF	✓	✓	✓*		+4%	✓
MiPro Sense / RF	✓	✓	✓		+4%	✓
MiGo	✓	✓	✓	✓	+4%	✓

*outdoor sensor required.

I would like to...

Control a combination boiler with one wired heating zone, a mechanical timer and a wired digital room thermostat
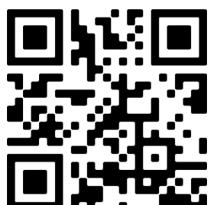
Room thermostat

Climastat
0020035402

How-to video
Scan the QR code to view our how-to video

Glow•worm

Climapro$_1$ / RF

Load compensating control

Easy to use

7 day programming

Weather compensating*

Wireless model available

Key features and benefits

Boiler modulation
eBUS connection allows the boiler to modulate, ensuring peak performance and optimum efficiency for a Glow-worm heating system

Enhanced load compensation
The Climapro$_1$ and Climapro$_1$ RF uses enhanced load compensation to adjust the output of the Glow-worm boiler, ensuring it only uses the energy it needs to

Flexible time programs
Three heating and hot water periods can be set for each week or 24 hour period

Clear, high contrast backlit display
Blue backlit display offers outstanding contrast and low energy consumption

Easy navigation
Simple operation makes it easy to set heating and hot water programs

Control traditional S and Y plan systems
Can control either an S or a Y plan system when used with our Smart wiring centre$_3$

Weather compensation*
When the outdoor sensor is fitted, it will provide an understanding of the thermal behaviour in and around the property and adjusts the flow temperatures to ensure optimal efficiency

*outdoor sensor required.

Technical specification

Technical data	Unit	Load compensating controls		
		Climapro$_1$	Climapro$_1$ RF	Climapro$_1$ RF Receiver
Article number		**0020118077**	**0020118078**	
Height	mm	97	115	20
Width	mm	146.5	146.5	171
Depth	mm	35	41	58
Power supply		eBUS 24V	4 x 1.5V(AA)	eBUS 24V
Battery life	Years	-	≈1.5	0.75
Minimum cross-section of the eBUS and sensor wire	mm^2	0.75	-	0.75
Level of protection		IP20		
Adjustable temperature range	°C	5 - 30		-
Maximum ambient temperature	°C	50		
Transmissions frequency	MHz	-	868	
Maximum communication range (outdoor)	m	-	100	
Maximum communication range (indoor)	m	-	≈25	
ErP class		5		-
ErP contribution %		3		-

I would like to...

Control a combination boiler with one wired heating zone and control everything from a single load compensating programmable thermostat	Control a combination boiler with one wireless heating zone and control everything from a single load compensating programmable thermostat	Control a system or open vent boiler with one wireless heating zone, and control everything from a single load compensating programmable thermostat	Control a system or open vent boiler with one wired heating zone, and control everything from a single load compensating programmable thermostat	Control combination, system or open vent boiler with two wired heating zones and hot water circuit with load compensating programmable thermostats
Programmable room thermostat	**Programmable room thermostat**	**Programmable room thermostat**	**Programmable room thermostat**	**2 x Programmable room thermostats**
Climapro$_1$ 0020118077	**Climapro$_1$ RF** 0020118078	**Climapro$_1$ RF** 0020118078 **Smart wiring centre$_3$** 0020135101	**Climapro$_1$** 0020118077 **Smart wiring centre$_3$** 0020135101	**2 x Climapro$_1$** 0020118077 **Smart wiring centre$_3$** 0020135101

How-to video
Scan the QR code to view our how-to video

Glow•worm

Climapro$_2$ RF

Load compensating control

Ergonomic design

7 day programming

Weather compensating*

Wireless

Key features and benefits

Boiler modulation
eBUS connection allows the boiler to modulate, ensuring peak performance and optimum efficiency for a Glow-worm heating system

Enhanced load compensation
The Climapro$_2$ RF uses enhanced load compensation to adjust the output of the Glow-worm boiler, ensuring it only uses the energy it needs to

Ergonomic design for ease of use
Designed to be easy to operate with large buttons and a simplistic menu layout to perform simple operations

Flexible time programs
Three heating and hot water periods can be set for each week or 24 hour period

Clear, high contrast backlit display
Blue backlit display offers outstanding contrast and low energy consumption

Easy navigation
Simple operation makes it easy to set heating and hot water programs

Weather compensation*
When the outdoor sensor is fitted, it will provide an understanding of the thermal behaviour in and around the property and adjusts the flow temperatures to ensure optimal efficiency

*outdoor sensor required.

Technical specification

Technical data	Unit	Load compensating controls	
		Climapro$_2$ RF	Climapro$_2$ RF Receiver
Article number		0020085221	
Height	mm	173	20
Width	mm	62.5	171
Depth	mm	34	58
Power supply		4 x 1.5V(AA)	eBUS 24V
Battery life	Years	≈1.5	-
Minimum cross-section of the eBUS and sensor wire	mm^2	-	0.75
Level of protection		IP20	
Adjustable temperature range	˚C	5 - 30	-
Maximum ambient temperature	˚C	50	
Transmissions frequency	MHz	868	
Maximum communication range (outdoor)	m	100	
Maximum communication range (indoor)	m	≈25	
ErP class		5	-
ErP contribution %		3	-

I would like to...

Control a combination boiler with one wireless heating zone and control everything from a single programmable thermostat	Control a system or open vent boiler with one wireless heating zone, and control everything from a single load compensating programmable thermostat
Programmable room thermostat	**Programmable room thermostat**

Climapro$_2$ RF
0020085221

Climapro$_2$ RF
0020085221

Smart wiring centre$_3$
0020135101

How-to video
Scan the QR code to view our how-to video

Glow•worm

MiGo

Load compensating control

Control heating on the go

7 day programming

Weather compensating

Easy to use

Wireless

Key features and benefits

Boiler modulation
eBUS connection allows the boiler to modulate, ensuring peak performance and optimum efficiency for a Glow-worm heating system

Your personal heating assistant
With the easy to use app, control heating and hot water from your home or on the go

Internet weather compensation
Optimises system flow temperatures and efficiency based on the temperature outside your home

Android and Apple iOS application
Easy remote control of heating and hot water via a mobile app

ErP class VI
High ErP performance for up to 4% increased efficiency

Boiler Plus compatible
Meets Boiler Plus requirements with ease due to being a smart, weather compensating and modulating control

Intelligent self-learning
Immediately begins to learn the thermal behaviour of the building to better respond to your requirements

Multi-user sharing and multi-home control
The app allows for multiple users to access one control. You can also use one app to connect to multiple controls, e.g. family home and holiday home

Technical specification

Technical data	Unit	Load compensating controls	
		MiGo	MiGo gateway
Article number		0020223275	
Height	mm	83	84
Width	mm	105	83
Depth	mm	26	25
Power supply		3 x 1.5V (AAA)	240v
Battery life	Years	≈2	-
Frequency	Hz	-	50 / 60
Minimum cross-section of the connection lines	mm^2	-	Plug supplied
Minimum cross-section of the eBUS and sensor wire	mm^2	-	0.75
Current consumption	W	-	‹2
Level of protection		IP20	
Adjustable temperature range	˚C	7 - 30	-
Maximum ambient temperature	˚C	50	
Transmissions frequency	MHz	868	
WLAN type		802.11 (2.4 GHz)	
Maximum communication range (outdoor)	m	100	
Maximum communication range (indoor)	m	≈25	
ErP class		6	-
ErP contribution %		4	-

I would like to...

Control a combination boiler with one wired heating zone and operate this from a thermostat in the home and remotely via smartphone or tablet	Control a system or open vent boiler with one wired heating zone, and control everything from a single programmable thermostat
Programmable room thermostat	**Programmable room thermostat**

MiGo combi pack
0020223275

MiGo system / open vent pack
0020223276

Introduction to MiGo
Scan the QR code to view more about MiGo

Glow·worm

MiSet / RF

Glow·worm

-2.0°C   06:30

20.0°C
Desired heating temperature
Current room temp. 19°C

?   MiSet   +

← ≡ ✓ —

Load compensating control

Time programming assistant

Weather compensating*

Easy to use

Touch interface

Key features and benefits

Boiler modulation
eBUS connection allows the boiler to modulate, ensuring peak performance and optimum efficiency for a Glow-worm heating system

Touch interface
The responsive, yet refined interface provides a simplistic method of navigating the control to undertake simple tasks

Time programme assistant
Easily set heating programmes within minutes using the time programme assistant

Two heating circuits with domestic hot water control
The wired MiSet can control up to two heating circuits with the SR 92 as the additional room thermostat

Easily control traditional S and Y plan systems
Can control either an S or a Y plan system when used with our smart wiring centre₃

Technical specification

Technical data	Unit	Load compensating controls		Receiver
		MiSet	MiSet RF	
Article number		0020260999	0020261004	
Height	mm	122	122	115
Width	mm	122	122	142.5
Depth	mm	26	26	26
Power supply		eBUS 24V	4 x 1.5V(AA)	eBUS 24V
Battery life	Years	-	≈1.5	-
Minimum cross-section of the eBUS and sensor wire	mm^2	0.75	-	0.75
Current consumption	mA	‹50	-	‹50
Level of protection		IP20		IP21
Adjustable temperature range	°C	5 - 30		-
Maximum ambient temperature	°C	60		
Transmissions frequency	MHz	-	868	
Maximum transmission power	mW	-	‹25	
Maximum communication range (outdoor)	m	-	≤100	
Maximum communication range (indoor)	m	-	≤25	
ErP class		5		-
ErP contribution %		3		-

I would like to...

Control a combination boiler with one wired/wireless heating zone and control everything from a programmable thermostat	Control a system or open vent boiler with one wired/wireless heating zone and control everything from a programmable thermostat	Control a combination, system or open vent boiler with two wired heating zones using programmable thermostats

Programmable room thermostat

MiSet
0020260999

or

MiSet RF
0020261004

ErP ready

Programmable room thermostat

MiSet
0020260999

or

MiSet RF
0020261004

Smart wiring centre₃
0020135101

ErP ready

Programmable room thermostat

MiSet
0020260999

SR 92
0020260987

Smart wiring centre₃
0020135101

ErP ready

How-to video
Scan the QR code to view our how-to video

Controls simulator

Glow•worm

MiPro Sense / RF

Glow•worm

-2.0°C   06:30

20.0°C
Desired heating temperature
Current room temp. 19°C

?   MiPro Sense   +

← ≡ ✓   −

Load compensating control

Time programming assistant

Weather compensating

Multi-zone heating

Touch interface

Key features and benefits

Boiler modulation
eBUS connection allows the boiler to modulate, ensuring peak performance and optimum efficiency for a Glow-worm heating system

Weather compensating
MiPro Sense / RF comes with an outdoor sensor which provides an understanding of the thermal behaviour in and around the property and adjusts the flow temperatures to ensure optimal efficiency

Touch interface
The responsive, yet refined interface provides a simplistic method of navigating the control to undertake simple tasks

Time programme assistant
Easily set heating programmes within minutes using the time programme assistant

Three heating circuits with domestic hot water control
The MiPro Sense / RF can control up to three heating circuits with the SR 92's as the additional room thermostats

Technical specification

Technical data	Unit	System control		System zone control	
		MiPro Sense	MiPro Sense RF	SR 92	SR 92f
Article number		0010038313	0010038314	0020260987	0020260990
Height	mm	122		122	
Width	mm	122		122	
Depth	mm	26		26	
Power supply		eBUS 24V	4 x 1.5V (AA)	eBUS 24V	4 x 1.5V (AA)
Battery life	Years	-	~ 1.5	-	~ 1.5
Minimum cross-section of the eBUS and sensor wire	mm^2	0.75		0.75	
Current consumption	mA	‹50	-	‹50	-
Level of protection		IP20			
Adjustable temperature range	˚C	5 - 30		-	
Maximum ambient temperature	˚C	60	45	60	45
Transmissions frequency	MHz	-	868	-	868
Maximum transmission power	mW	-	25		25
Maximum communication range (outdoor)	m	-	100	-	100
Maximum communication range (indoor)	m	-	25	-	25
ErP class		6		-	
ErP contribution %		4		-	

I would like to...

Control a combination boiler with one wired/wireless heating zone and control everything from a single programmable thermostat	Control a system or open vent boiler with one wired/wireless heating zone and hot water, and control everything from a single programmable thermostat	Control a combination, system or open vent boiler with two wired/wireless heating zones and hot water using programmable thermostats	Control a combination, system or open vent boiler with three wired/wireless heating zones and hot water using programmable thermostats

Programmable room thermostat

MiPro Sense
0010038313

or

MiPro Sense RF
0010038314

System control pack

MiPro Sense 1 Zone & DHW Pack
0010036829

or

MiPro Sense RF 1 Zone & DHW Pack
0010036832

System control pack

MiPro Sense 2 Zones & DHW Pack
0010036830

or

MiPro Sense RF 2 Zones & DHW
0010036833

System control pack

MiPro Sense 3 Zones & DHW Pack
0010036831

or

MiPro Sense RF 3 Zones & DHW Pack
0010036834

How-to video
Scan the QR code to view our how-to video

Controls simulator

Controls compatibility finder

Controls compatibility finder

Heating system							
Boiler	Zones	Weather/load compensation	Wired/ wireless	App availability	Climapro$_1$*	Climapro$_1$ RF*	Climapro$_2$ RF*
Combi	1	Load	Wired	No			
		Load	Wired	No	✓		
		Load	Wireless	No		✓	
		Load	Wireless	No			✓
		Load	Wired	No			
		Load	Wireless	No			
		Weather	Wired	No			
		Weather	Wireless	No			
		Weather	Wireless	Yes			
	2	Load	Wired	No	✓**		
		Load	Wired	No			
		Weather	Wired	No			
		Weather	Wireless	No			
	3	Weather	Wired	No			
		Weather	Wireless	No			
System or open vent	1	Load	Wired	No	✓		
		Load	Wireless	No		✓	
		Load	Wireless	No			✓
		Load	Wired	No			
		Load	Wireless	No			
		Weather	Wired	No			
		Weather	Wireless	No			
		Weather	Wireless	Yes			
	2	Load	Wired	No	✓**		
		Load	Wireless	No			
		Weather	Wired	No			
		Weather	Wireless	No			
	3	Weather	Wired	No			
		Weather	Wireless	No			

*Weather compensating with outdoor weather sensor.

**Two Climapro1's required for the two heating circuit solution.

Notes:

Unless stated otherwise all controls are digital and have 7 day programming.

Climastat used with a mechanical timer will comply to Boiler Plus.

	Control					Wiring centre		Thermostat		
²	MiSet*	MiSet RF*	MiPro Sense	MiPro Sense RF	MiGo	Smart wiring centre 3	RED 5	Climastat*	SR 92	SR 92f
								✓		
	✓									
		✓								
			✓							
				✓						
					✓					
						✓				
	✓					✓			✓	
			✓				✓		✓	
				✓			✓			✓
			✓				✓		✓	
				✓			✓			✓
						✓				
						✓				
						✓				
	✓					✓				
		✓				✓				
			✓				✓			
				✓			✓			
					✓	✓				
						✓				
	✓					✓			✓	
			✓				✓		✓	
				✓			✓			✓
			✓				✓		✓	
				✓			✓			✓

Glow•worm

Everything you need to know about Boiler Plus

What is Boiler Plus?

A new piece of legislation called Boiler Plus has been introduced in the UK and came into effect on the 6th April 2018. The new standard requires the following:

- Requirement of all gas boilers installed into existing systems in England to have an ErP efficiency of at least 92%.

- Requires all time and temperature controls to be installed at the same time, if not already present and working.

- Requires combination boiler replacements to include the provision of an additional energy efficiency measure to be installed at the same time.

Load compensating control

Weather compensating

Control heating on the go

Glow-worm controls

Due to the eBUS technology used by Glow-worm controls, it makes the controls range one of the most advanced in the marketplace. The table below shows how Glow-worm controls already adhere to the boiler plus standards:

Control		Time and temperature control	Time and temperature control	Load compensation	Weather compensation	Automated smart control	ErP benefit	Boiler Plus
Climastat with mechanical timer		✓	✓				+3%	✓
Climapro$_2$ RF		✓	✓	✓*			+4%	✓
Climapro$_1$ RF		✓	✓	✓*			+4%	✓
MiSet / RF		✓	✓	✓*			+4%	✓
MiPro Sense / RF		✓	✓	✓			+4%	✓
MiGo		✓	✓	✓	✓		+4%	✓

*outdoor sensor required.

Glow•worm

Customer
Segmentation

MiPro Sense

45 %	36 %		53 %
of Climapro$_2$ RF's sold in 2017/18 was to customers who represent	of UK homes, of which		are families
Age 45 and over	**Above average £**	**AB**	**Semi-detached**

MiSet

50 %	34 %		52 %
Of Climapro$_1$'s sold in 2017/18 was to customers who represent	of UK homes, of which		are families
Age 30 to 59	**Average £**	**C2**	**Semi-detached**

MiGo

48 %	36%		53 %
of MiGo's sold in 2018 was to customers who represent	of UK homes, of which		are families
Age 45 and over	**Above average £**	**C2**	**Semi-detached**

Glow•worm

Customer Segmentation

Climapro$_2$ RF

45 %	36 %	53 %
of Climapro$_2$ RF's sold in 2018 was to customers who represent	of UK homes, of which	are families
Age 45 and over	Above average £	C2	Semi-detached

Climapro$_1$

52 %	36 %	50 %
Of Climapro$_1$'s sold in 2018 was to customers who represent	of UK homes, of which	are families
Mixed ages	Above average £	C2	Semi-detached

Climastat

48 %	39 %	52 %
Of Climastat's sold in 2018 was to customers who represent	of UK homes, of which	are families
Age 30 to 59	Above average £	C2	Semi-detached

Glow·worm

MiPro Sense packs

Pack 1 0010036829	Pack 2 0010036830	Pack 3 0010036831
1x MiPro Sense	1x MiPro Sense	1x MiPro Sense
1 x RED 5	1 x SR 92	2 x SR 92
	1 x RED 5	1 x RED 5

MiSet solutions

1 Rad & DHW	2 Rads & DHW
MiSet	MiSet
Smart Wiring Centre$_3$	SR 92
	Smart Wiring Centre$_3$

MiPro Sense RF packs

Pack 1 0010036832	Pack 2 0010036833	Pack 3 0010036834
1x MiPro Sense RF	1x MiPro Sense RF	1x MiPro Sense RF
1 x RED 5	1 x SR 92f	2 x SR 92f
	1 x RED 5	1 x RED 5

Glow·worm

New Controls
Packs

Associated Article No.'s / Packs for MiPro Sense

Control/Pack Name	Model No.	Article number
MiPro Sense	SRC 720	0010038313
Remote Control - SR 92	SR 92	0020260987
Pack 1 - MiPro Sense, 1 Rad Zone & DHW	-	0010036829
Pack 2 - MiPro Sense, 2 Rad Zone & DHW	-	0010036830
Pack 3 - MiPro Sense, 3 Rad Zone & DHW	-	0010036831

Associated Article No.'s / Packs for MiPro Sense RF

Control/Pack Name	Model No.	Article number
MiPro Sense RF	SRC 720f	0010038314
Remote Control - SR 92f	SR 92f	0020260990
Pack 1 - MiPro Sense RF, 1 Rad Zone & DHW	-	0010036832
Pack 2 - MiPro Sense RF, 2 Rad Zone & DHW	-	0010036833
Pack 3 - MiPro Sense RF, 3 Rad Zone & DHW	-	0010036834

Associated Article No.'s for MiSet

Control/Pack Name	Model No.	Article number
MiSet	SRT 380	0020260999
MiSet RF	SRT 380f	0020261004

Associated wiring centre's

Accessory Name	Model No.	Article number
Smart Wiring Centre$_3$	-	0020135101
RED 5 Wiring Centre	-	0020257510

Glow·worm

Schematics
Guide

To continue to support our installers and making their lives easier we have created a schematics booklet which covers the basic of installations to very complex installations.

The below table references the most popular system installation in the UK:

Single heating zone

Two heating zones

Multi heating zones

Schematic No.	Combination boiler schematics	Page No.
90010-1001	Combination boiler, 1 radiator zone	4
90020-1002	Combination boiler, 2 radiator zones	6
90030-1003	Combination boiler, 3 radiator zones	8

Schematic No.	System boiler schematics	Page No.
90060-1011	System boiler, Domestic Hot Water, 1 Radiator zone	10
90070-1012	System boiler, Domestic Hot Water, 2 Radiator zones	12
90080-1013	System boiler, Domestic Hot Water, 3 Radiator zones	14

Glow•worm

Schematics

Guide

For the relevant system configuration settings in the MiPro Sense wired or wireless controller, refer to page 28. Care must be taken going through each setting diligently and adjust as necessary in accordance to system configuration and property requirements.

Only key settings are listed in the schematics booklet, refer to the MiPro Sense installation manual for further guidance.

Where to find the schematics booklet:

You can scan the QR Code below which will directly take you the schematics booklet for the MiPro Sense.