

for shortwave, ventilated IR-modules Step- and lossless controls (VDE and CE certified)

Phase angle controller requires a high effort to eliminate electrical interference, but has the benefit of not showing any flimmer even with fast-reaction short wave IR-emitters, which is especially important in fast production processes.

Model PLS1-2

Output power:	max. 2 kW
Output adjustment range:	0 ... 100%
Mains connection:	2 m connection cable with grounded plug; 230 V (50/60 Hz)
Consumer connection:	internal terminal connection (2 cable glands on the back for two consumers)
Casing:	aluminum laquered (RAL7035 light grey), aluminum anodised (frontplate)
Dimensions, weight:	260 x 90 x 180 mm, approx. 2 kg
Protection class:	IP 20
Other features:	noise suppressed class A for industrial sectors IEC 60947-4-3, IEC 61000-4-2

Item-no.: 131905



PLS1-2

Model PLS1-2 Ext.

for external power control by 0 ... 10 V DC signal

Output power:	max. 2 kW
Output adjustment range:	0 ... 100% by front-sided potentiometer or by external 0 ... 10 V DC control signal after removing an internal jumper
Mains connection:	2 m connection cable with grounded plug; 230 V (50/60 Hz)
Consumer connection and control input:	internal terminal connection for max. 2 consumer (2 cable glands on the back) and one cable gland for control signal cable
Control signal:	0...10 V DC corresponds to 0 ... 100% power
Casing:	aluminum laquered (RAL7035 light grey), aluminum anodised (frontplate)
Dimensions, weight:	260 x 90 x 240 mm, approx. 2.6 kg
Protection class:	IP 20
Other features:	noise suppressed class A for industrial sectors IEC 60947-4-3, IEC 61000-4-2; integrated soft start

Item-no.: 131917.3



PLS1-2 Ext.

Power Controller

for shortwave, ventilated IR-modules

Model PLS1-2plus

Power controller for automatic temperature regulation for shortwave ventilated IR-modules.
Temperature controller with lcd display for setpoint and actual value.



PLS1-2plus

Output power:	max. 2 kW
Input signal:	Universal input for connecting a thermocouple or radiation pyrometer (please order separately, see measurement technology / pyrometer)
Output adjusting range:	0 ... 100% switchable between automatic regulation with lcd display for setpoint and actual value and manual output power setting
Temperature range:	variable adjustable (factory setting 0 ... 300°C)
External power control:	0 ... 10 V DC signal = 0 ... 100% power (automatic control deactivated)
Mains connection:	2 m connecting cable with grounded plug, 230 V AC (50/60 Hz)
Consumer connection:	internal terminal connection (2 cable glands on the back for two consumers)
Casing:	aluminium laquered (RAL 7035 light grey), aluminium anodised (frontplate)
Applied standards:	VDE; CE; IP 20
Dimensions, weight:	260 x 90 x 180 mm, approx. 3 kg
Other features:	noise suppression class A for industrial sectors IEC 60947-4-3, IEC 61000-4-2; mains switch front-sided

Item-no.: **131809.4**

Options for PLS1-2plus:

Timer and additional start button
(alternatively timer can be started by an external potential-free contact)

Item-no.: **131941**

remote setpoint input 0 ... 10 V DC = 0 ... 300°C (factory setting)
Switching between local and remote setpoint by controller keys.

Item-no.: **131942**

Further controller functions (alarm relay, set point change) on request

Pyrometers you can find at Optron.de → measuring technology / pyrometer.

Power Controller

for shortwave, ventilated IR-modules

Model PLS2-6

Output power:	max. 6 kW
Output adjustment range:	0 ... 100% by front-sided potentiometer or by external 0 ... 10 V DC control signal after removing an internal jumper
Mains connection:	2 m connection cable with 16 A CEE plug; 400 V (50/60 Hz)
Consumer connection:	internal terminal connection for max. 3 consumer
Control signal:	0...10 V DC corresponds to 0 ... 100% power
Casing:	aluminum laquered (RAL7035 light grey), aluminum anodised (frontplate)
Dimensions, weight:	260 x 90 x 270 mm, approx. 4 kg
Protection class:	IP 20
Other features:	noise suppressed class A for industrial sectors IEC 60947-4-3, IEC 61000-4-2; integrated soft start



Item-no.: 131946

Model PLS2-6plus

Power controller for automatic temperature regulation for shortwave ventilated IR-modules.
Temperature controller with lcd display for setpoint and actual value.



Output power:	max. 6 kW
Input signal:	Universal input for connecting a thermocouple or radiation pyrometer (please order separately, see measurement technology / pyrometer)
Output adjusting range:	0 ... 100% switchable between automatic regulation with lcd display for setpoint and actual value and manual output power setting
Temperature range:	variable adjustable (factory setting 0 ... 300°C)
External power control:	0 ... 10 V DC signal = 0 ... 100% power (automatic control deactivated)
Mains connection:	2 m connecting cable with 16 A CEE plug, 400 V AC (50/60 Hz)
Consumer connection:	internal terminal connection for max. 3 consumer
Casing:	aluminium laquered (RAL 7035 light grey), aluminium anodised (frontplate)
Applied standards:	VDE; CE; IP 20
Dimensions, weight:	260 x 90 x 270 mm, approx. 4 kg
Other features:	noise suppression class A for industrial sectors IEC 60947-4-3, IEC 61000-4-2; mains switch front-sided

Item-no.: 131947

Options for PLS1-2plus:

Timer and additional start button
(alternatively timer can be started by an external potential-free contact)

Item-no.: 131941

remote setpoint input 0 ... 10 V DC = 0 ... 300°C (factory setting)
Switching between local and remote setpoint by controller keys.

Item-no.: 131942

Further controller functions (alarm relay, set point change) on request

Pyrometers you can find at Optron.de → measuring technology / pyrometer.

Power Controller

for shortwave, ventilated IR-modules

Model PLS3-19

Output power:	max. 19 kW with symmetrical delta connection (open delta)
Output adjustment range:	0 ... 100% by front-sided potentiometer, switchable to external power control by 0 ... 10 V DC signal via frontal key switch
Mains connection:	2 m connection cable with 32 A CEE plug; 3x 400 V + N + PE (50/60 Hz)
Consumer connection:	internal fuse protection 6x 16 A; internal terminal connection (6 cable glands on the back for max. 6 consumers [230 V AC / max. 3x 16A] or 3 consumers [3x 400 V AC / max. 3x 16A] in open delta connection)
Casing:	aluminum laquered (RAL7035 light grey), aluminum anodised (frontplate)
Protection class:	IP 20
Dimensions, weight:	360 x 145 x 410 mm, approx. 10.8 kg
Other features:	noise suppressed class A for industrial sectors IEC 60947-4-3, IEC 61000-4-2; Integrated soft start; front-sided mains switch



PLS3-19

Item-no.: 131942

Model PLS3-19plus

Output power:	max. 19 kW with symmetrical delta connection (open delta)
Input signal:	Universal input for connecting a thermocouple or radiation pyrometer (please order separately, see measurement technology / pyrometer)
Output adjusting range:	0 ... 100% switchable between automatic regulation with double led display for setpoint and actual value and manual output power setting variable adjustable (factory setting 0 ... 300°C)
Temperature range:	0 ... 10 V DC signal = 0 ... 100% power (automatic control deactivated)
External power control:	2 m connection cable with 32 A CEE plug; 3x 400 V + N + PE (50/60 Hz)
Mains connection:	internal fuse protection 6x 16 A; internal terminal connection (6 cable glands on the back for max. 6 consumers [230 V AC / max. 3x 16A] or 3 consumers [3x 400 V AC / max. 3x 16A] in open delta connection)
Consumer connection:	aluminium laquered (RAL 7035 light grey), aluminium anodised (frontplate)
Casing:	VDE; CE; IP 20
Applied standards:	360 x 145 x 410 mm, approx. 10.8 kg
Dimensions, weight:	noise suppression class A for industrial sectors IEC 60947-4-3, IEC 61000-4-2; mains switch front-sided
Other features:	



PLS3-19plus

Item-no.: 131914

Optional for PLS3-19plus:

Digital-Timer and additional start button

(alternatively timer can be started by an external potential-free contact)

Item-no.: 131941

remote setpoint input 0 ... 10 V DC = 0 ... 300°C (factory setting)

Switching between local and remote setpoint by controller keys.

Item-no.: 131942

Further controller functions (alarm relay, actual value) on request

Pyrometers you can find at Optron.de → measuring technology / pyrometer.