



# CONTROL TECHNOLOGY

DINO range of heating controllers



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WITA has been supplying technically mature equipment for more than 40 years. We can supply all the equipment you need for a modern heating system.

**Our product range includes**

- ◆ Control technology
- ◆ Mixing technology
- ◆ Pump technology
- ◆ Drive technology
- ◆ Fitting technology

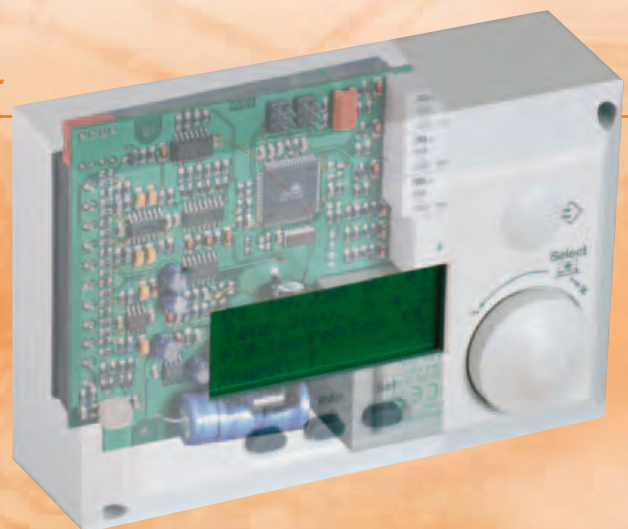
**WITA DINO range of heating controllers**

DINO heating controllers are digital and equipped with a four-line back-lit LCD display. All menu items for setting the controller can be accessed via the LCD display. The indicated values are updated constantly.

Functions and values can be displayed and altered using the rotating switch.

The WITA DINO range of heating controllers is comprised of two different controllers: **DINO 1** and **DINO 2**. Six different control settings can be pre-set using a DIL switch on the back.

**Cross-section of a DINO heating controller**



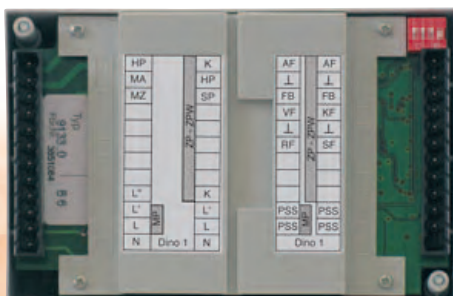
CONTROL TECHNOLOGY

# Dino 1 | Dino 2

## Heating controllers

### Functions common to both Dino 1 and Dino 2

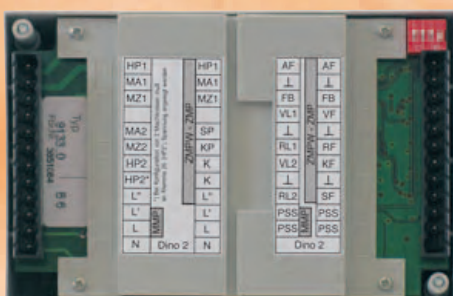
Weather-driven control
Convenient control in line with heating needs
Mixer and pump blocking protection
Frost protection
Sensor monitoring
Pre-heating programme (functional heating)
External temperature measurement
Return flow temperature influence (difference between supply/return)
Adjustable remote control influence
Interface to an electronic WITA heating circulation pump
PC connection via service interface at the front



**Dino 1 ZP**  
**Dino 1 ZPW**  
**Dino 1 MP**

#### Areas of application for Dino 1 heating controllers

for burners and circulating pumps  
for burners, circulating pumps and process water preparation  
for mixer circuits and circulating pumps or  
for mixer circuits and circulating pumps with return  
flow temperature influence  
if required, the control mode of the Dino 1 can be  
altered using a DIL switch on the back.



**Dino 2 ZMP**  
**Dino 2 ZMPW**  
**Dino 2 MMP**

#### Areas of application for Dino 2 heating controllers

for burners, mixers and circulating pumps  
for burners, mixers, circulating pumps and process  
water preparation  
for two mixer circuits and circulating pumps or  
for two mixer circuits and circulating pumps with  
return flow temperature influence  
if required, the control mode of the Dino 2 can be  
altered using a DIL switch on the back.

# Dino 1 ME | Dino 2 ME

## Heating controllers

The electronic motors of the Dino range are used for weather-driven control of mixers (Dino 1 ME) and mixer-burners (Dino 2 ME) in warm water heating systems. Electronic control and servomotor (6 Nm, 10 Nm resp. 25 Nm) are combined as a compact controller in a single casing. Thanks to its standard universal console, special assembly kits can be used to make the electronic motor suitable for use with standard mixers.

A supply sensor with 2 m connectinv cable and an 0.8 m pump connecting cable are already pre-wired (Dino 2 ME also has a boiler sensor wth 2 m connecting cable and a second pump connecting cable).

### Dino 2 ZMP ME



Dino 1 MP ME H

Dino 1 MP ME 6H | Dino 1 MP ME 10H  
Dino 2 ZMP ME 6H | Dino 2 ZMP ME 10H

Dino 1 MP ME 10 | Dino 1 MP ME 25  
Dino 2 ZMP ME 10 | Dino 2 ZMP ME 25



# CONTROL TECHNOLOGY

# Technical specifications

	Dino 1	Dino 2
Operating voltage	230V~50Hz ± 10%	230V~50Hz ± 10%
Power input	5,5 VA	5,5 VA
Output signals	3 relays	6 relays
Contact rating	250V~, 8(2) A /contact; aggregate max. 9 A	250V~, 8(2) A /contact; aggregate max. 9 A
Protection class	II	II
Protection type	IP 40	IP 40
Permissible ambient operating temp.	0 ... 40°C	0 ... 40°C
Permissible ambient idle temp.	-20 ... 70°C	-20 ... 70°C
Data backup in case of power outage	> 1 year	> 1 year
Timer power reserve	> 4 hours	> 4 hours
Service interface	RS 232 (use of special data cable)	RS 232 (use of special data cable)

	Dino 1 MP ME 6 H Dino 2 MP ME 6 H	Dino 1 MP ME 10 H Dino 2 MP ME 10 H	Dino 1 MP ME 10 Dino 2 MP ME 10	Dino 1 MP ME 25 Dino 2 MP ME 25
Operating voltage	230V~50Hz ± 10%		230V~50Hz ± 10%	
Power input	7.8 VA		8.7 VA	
Contact rating of the relays	8(2) A /contact; aggregate max. 9 A		8(2) A /contact; aggregate max. 9 A	
Protection class	I		I	
Protection type	IP 40		IP 40	
Permissible ambient operating temp.	0 ... 40°C		0 ... 40°C	
Adjustment range	90°		90° adjustable in 15° increments	
Maximum torque	6 Nm	10 Nm	10 Nm	25 Nm
Adjusting time	150 sec. / 90°		130 sec. / 90°	

## Assembly kits

Article	Description	Art. no.
ASSEMBLY KITS FOR DINO 1 MP ME 10 / DINO 1 MP ME 25 / DINO 2 ZMP ME 10 / DINO 2 ZMP ME 25		
Assembly kit 1	Universal assembly kit	BS 1
Assembly kit 3	for Centra-Compact, Wilo-Mix-RS 25/80 mixers	BS 3
Assembly kit 4	for AXA, Viessmann DN 15-25, Wilo-Mix, Wilo mixers	BS 4
Assembly kit 5	for Landis & Stäfa, Elesta (Serie G), ESBE, Danfoss HRE..., PAW mixers	BS 5
Assembly kit 9	for WITA GFM, Centra series ZR... and DR..., Vaillant VRM 3 - VRM 4 mixers	BS 9
Assembly kit 11	for Centra series DRU... mixers	BS 11
ASSEMBLY KITS FOR DINO 1 MP ME 6H / DINO 1 MP ME 10H / DINO 2 ZMP ME 6H / DINO 2 ZMP ME 10H		
Assembly kit 50	for WITA Minimix (6Nm) – Maximix (10 Nm) brass mixers – WITA GG mixer H and Bloc T20, T40, T60 (T60-32 10 Nm)	BS 50
Assembly kit 52	for Holter series 3+4 way BR, Kromschroder G3C + G4, Ewers GG-KG-RG DN 25-32 (DN 40-50 10Nm) mixers	BS 52
Assembly kit 53	for ESBE MG (DN 15-32) – G+F (DN20-40) – T+TM (DN 20-32) – BIV (DN 20-25) mixers, Acaso/Thermomix DxxS + CxxS (DN15-32) – DxxAG + CxxAG (DN 20-40) – DxxK + CxxK (DN 12-28)	BS 53
Assembly kit 54	for PAW mixers MS-H module series K32-38 (DN 25) - module seriesK32-38 (DN 32-50 10 Nm)	BS 54
Assembly kit 55	for L&G, L&S VBI (G) 31 (DN 20-40 – VBF21 (DN 40-50 10 Nm)	BS 55
Assembly kit 56	for Honeywell Corona V_A (DN 20-32) – (DN 40-50 10 Nm), Junkers DWM + VWM (DN 20-32) – (DN 40-50 10 Nm)	BS 56
Assembly kit 57	for ESBE HG + H (DN 20-50), Acaso H3 + H4 (DN 25)	BS 57
Assembly kit 58	for Holter GD + GV (DN 15-32)	BS 58
Assembly kit 59	for Holter GD + GV (DN 40-50 10 Nm)	BS 59
Assembly kit 511	for MUT VMX (DN 25 / VM 3000 (DN 20-32)	BS 511

# Range of control equipment



Article	Description	Scope of delivery	Art. no.
Dino 1 MP / ZP	2-point controller for weather-driven control of boilers or 3-point controller for weather-driven control for motive mixer adjustment	Base for wall mounting External sensor AFD with mounting kit Supply sensor VFAD (can also be used as a boiler sensor) with 2 m connecting cable	R 5A 01 11
Dino 1 ZPW	2-point controller for weather-driven control of boilers and water heating	Base for wall mounting External sensor AFD with mounting kit Supply sensor VFAD (can also be used as a boiler sensor) with 2 m connecting cable Storage sensor SPFD with 2 m connecting cable	R 5A 01 14
Dino 2 ZMP	2-point 3-point controller for weather-driven control of boilers and for motive mixer adjustment	Base for wall mounting External sensor AFD with mounting kit 2 supply sensors VFAD (can also be used as a boiler sensors) with 2 m connecting cable	R 5A 01 17
Dino 2 ZMPW	2-point 3-point controller for weather-driven control of boilers, for motive mixer adjustment and water heating	Base for wall mounting External sensor AFD with mounting kit 2 supply sensors VFAD (can also be used as a boiler sensors) with 2 m connecting cable Storage sensor SPFD with 2m connecting cable	R 5A 01 15
Dino 2 MMP	2 x 3-point controllers for weather-driven control for 2 x motive mixer adjustment	Base for wall mounting External sensor AFD with mounting kit 2 supply sensors VFAD (can also be used as a boiler sensors) with 2 m connecting cable	R 5A 06 17

Article		Max. torque	Adjusting time / range	Operating voltage	Art. no.
Dino 1 MP ME 6H	with assembly kit 50 (WITA mixers)	6 Nm	150 sec. / 90°	230V~50Hz	R 5A 03 31 50
Dino 1 MP ME 6H	without assembly kit	6 Nm	150 sec. / 90°	230V~50Hz	R 5A 03 31 00
Dino 1 MP ME 10H	with assembly kit 50 (WITA mixers)	10 Nm	150 sec. / 90°	230V~50Hz	R 5A 03 61 50
Dino 1 MP ME 10H	without assembly kit	10 Nm	150 sec. / 90°	230V~50Hz	R 5A 03 61 00
Dino 1 MP ME 10	with assembly kit 1 (universal assembly kit)	10 Nm	130 sec. / 90°	230V~50Hz	R 5A 03 41 01
Dino 1 MP ME 10	without assembly kit	10 Nm	130 sec. / 90°	230V~50Hz	R 5A 03 41 00
Dino 1 MP ME 25	with assembly kit 1 (universal assembly kit)	25 Nm	130 sec. / 90°	230V~50Hz	R 5A 03 51 01
Dino 1 MP ME 25	without assembly kit	25 Nm	130 sec. / 90°	230V~50Hz	R 5A 03 51 00

**Scope of delivery Dino 1 MP ME:** 1 supply sensor with 2 m connecting cable (pre-wired), 1 pump connecting cable with 0.8 m connecting cable (pre-wired), 1 external sensor with mounting kit

Article		Max. torque	Adjusting time / range	Operating voltage	Art. no.
Dino 2 ZMP ME 6H	with assembly kit 50 (WITA mixers)	6 Nm	150 sec. / 90°	230V~50Hz	R 5A 07 31 50
Dino 2 ZMP ME 6H	without assembly kit	6 Nm	150 sec. / 90°	230V~50Hz	R 5A 07 31 00
Dino 2 ZMP ME 10H	with assembly kit 50 (WITA mixers)	10 Nm	150 sec. / 90°	230V~50Hz	R 5A 07 61 50
Dino 2 ZMP ME 10H	without assembly kit	10 Nm	150 sec. / 90°	230V~50Hz	R 5A 07 61 00
Dino 2 ZMP ME 10	with assembly kit 1 (universal assembly kit)	10 Nm	130 sec. / 90°	230V~50Hz	R 5A 07 41 01
Dino 2 ZMP ME 10	without assembly kit	10 Nm	130 sec. / 90°	230V~50Hz	R 5A 07 41 00
Dino 2 ZMP ME 25	with assembly kit 1 (universal assembly kit)	25 Nm	130 sec. / 90°	230V~50Hz	R 5A 07 51 01
Dino 2 ZMP ME 25	without assembly kit	25 Nm	130 sec. / 90°	230V~50Hz	R 5A 07 51 00

**Scope of delivery Dino 2 ZMP ME:** 1 boiler sensor with 2 m connecting cable (pre-wired), 1 supply sensor with 2 m connecting cable (pre-wired), 2 x 0.8 m pump connecting cables (pre-wired), 1 external sensor with mounting kit

## RANGE OF ACCESSORIES

Article	Description	Art. no.
FBD	Remote control with room temperature measurement	R-Z 2 FBD
VFAD	Supply sensor with 2 m connecting cable as additional return flow sensor for Dino 1 MP and Dino 2 MMP	R-Z 01 20 10
TW	Thermostat for temperature monitoring (pre-wired)	R-Z 2 TW

Pre-mounted on the mixer on request.