



DRIVE TECHNOLOGY

Set point controller



WILHELM TAAKE GMBH Pumpen-, Armaturen- und Regeltechnik
Böllingshöfen 85 · D-32549 Bad Oeynhausen
Tel.: +49 (0) 57 34-5123 80 · Fax: +49 (0) 57 34-17 52
Internet: <http://www.wita-taake.de> · e-mail: info@wita-taake.de

SM 4 FR H | SM 4 FR K

The **SM 4 FR H** set point controller serves to maintain a pre-defined temperature in the supply section of a heating system at a constant level by regulating a 3 or 4 way mixer using an integrated mixer drive. Appropriate adapters enable the controller / mixer drive combination to be used both with WITA 3 or 4 way mixers or with mixers from other suppliers. The direction of the mixer drive (rotation to the left or right) and the activation of the supply temperature limitation can be set using 2 internal jumpers.

2 LEDs on the front of the controller display the currently activated mixer drive signal (on/off). The LEDs also display sensor errors and any temperature limitation that has been set.

The FBD remote control can be connected to measure room temperature and to remotely adjust settings.



The technical specifications of the **SM 4 FR K** are the same as the **SM 4 FR H**, except that the former also serves to maintain a pre-defined temperature in the supply section of a cooling system at a constant level.

Note:

Please consult the data sheet of the mixer to be installed (torque) when selecting a servomotor!

Technical specifications

	SM 4 FR H (heating)	SM 4 FR K (cooling)
Operating voltage:	230 V ~ 50 Hz	230 V ~ 50 Hz
Power input:	approx. 3,3 VA	approx. 3,3 VA
Protection type:	IP 50	IP 50
Protection class:	II acc. to DIN 57700	II acc. to DIN 57700
Max. torque:	10 Nm	10 Nm
Adjustable supply temperature range:	20 - 80°C	5 - 25°C
Adjusting time:	150 sec. at 90° angle of rotation 210 sec. at 90° angle of rotation	150 sec. at 90° angle of rotation 210 sec. at 90° angle of rotation
Supply sensor:	NTC (2 m cable)	NTC (2 m cable)
Emergency operation:	Manual adjustment	Manual adjustment
Temp. limitation	SM 4 FR H 55°C	SM 4 FR K 15°C

RANGE OF SET POINT CONTROLLERS | ASSEMBLY KITS AND ACCESSORIES

Article		Max. torque	Adjusting time / range	Operating voltage	Art. no.
SM 4.10 FR H	with assembly kit 41 for WITA brass mixers	10 Nm	150 sec. / 90°	230 V ~ 50 Hz	R 400347 41 43
		10 Nm	210 sec. / 90°	230 V ~ 50 Hz	R 400377 41 43
	without assembly kit	10 Nm	150 sec. / 90°	230 V ~ 50 Hz	R 400347 00 43
		10 Nm	210 sec. / 90°	230 V ~ 50 Hz	R 400377 00 43
SM 4.10 FR K	with assembly kit 41 for WITA brass mixers	10 Nm	150 sec. / 90°	230 V ~ 50 Hz	R 40034A 41 43
		10 Nm	210 sec. / 90°	230 V ~ 50 Hz	R 40037A 41 43
	without assembly kit	10 Nm	150 sec. / 90°	230 V ~ 50 Hz	R 40034A 00 43
		10 Nm	210 sec. / 90°	230 V ~ 50 Hz	R 40037A 00 43

Article		Art. no.	
SM 4	Assembly kit 41	WITA brass mixers, WITA grey cast iron mixers T20, T40, T60 (T60-32-SM4 10 Nm)	BS 41
	Assembly kit 42	Holter BR, Komschröder G3C+G4C, Ewers GG, KG, RG DN25-32 (DN40-50 10 Nm)	BS 42
	Assembly kit 43	ESBE MG (DN15-32), G+F (DN20-40), Acaso Thermomix DxxS+CxxS (DN15-32) DxxAG+CxxAG (DN20-40) DxxK+CxxK (DN12-28)	BS 43
	Assembly kit 43MK	Meibes Kompakt Edition 7	BS 43MK
	Assembly kit 44	ESBE HG + H (DN 20-DN50) G+F (DN40-80), Acaso H3 + H 4 (DN 25)	BS 44
	Assembly kit 45	L&G, L&S VBI (G) 31 (DN20-40) VBF21 (DN40-50 10Nm)	BS 45
	Assembly kit 46	Honeywell Corona V_A (DN20-32) - (DN40-50 10Nm), Junkers DWM +VWM (DN20-32) - (DN40-50 10 Nm)	BS 46
	Assembly kit 47	PAW 3+4 way MS -H - module heating series K 32-38 (DN 25-25) - module heating series K 32-38 (DN 32-50 10 Nm)	BS 47
	Assembly kit 411	ESBE 3+4 way T +TM (DN20-32)	BS 411
	Assembly kit 412	ESBE BIV (DN20-25) Acaso Thermomix A20G Dn20, A (DN20-32) AxxK (DN12-22)	BS 412
	Assembly kit 413	Honeywell, Centra 4 way ZRK (DN20-40)	BS 413
	Assembly kit 414	Honeywell, Centra sleeve design ZR -DR xxxA - DRxxG (DN15-Dn32 10 Nm)	BS 414
	Assembly kit 415	Honeywell, Centra 3 way DRU (DN20-25)	BS 415
	Assembly kit 416	Holter GD+GV (DN40-50 10 Nm) - GD+GV (DN15-32)	BS 416
	Assembly kit 417	Holter GD+GV (DN15-32)	BS 417
	Assembly kit 418	Mut MS mixer VMX (DN25) - VM3000 (DN25-32)	BS 418
	Assembly kits for other brands are available on request		