



RW 20 digital
Overhead stirrer with digital display. Technical improvements on the trusted RW 20 series designs.


EUROSTAR power control-visc
Stirrer for quantities up to 40 l, with RS 232 interface, page 41
Ident. No. 2600000

R 271
Boss head clamp, page 126
Ident. No. 2664000

R 2723
Telescopic stand, page 125
Ident. No. 1412100

R 1331
Anchor stirrer, page 46
Ident. No. 2022400

RH 5
Strap clamp, page 126
Ident. No. 3159000

 labworldsoft®
With labworldsoft® you can network up to 64 laboratory devices and control these from a PC, see page 153



IKA® Mixing

38 Electronic overhead stirrers

IKA® Mixing

Electronic overhead stirrers

39



RW 11 basic „Lab egg“

Small-sized stirrer available in four attractive colors.

- Glass-housing resistant to chemicals
- Max. stirring quantity 2 l (H₂O)
- Incl. paddle stirrer R 1001 and extension arm

Accessories (page):
R 103 Stand (124), R 1001 Spare paddle stirrer (48), R 1002 Screw-type stirrer (48)

Technical data	
Stirring quantity (H ₂ O)	2 l
Max. viscosity	100 mPas
Motor rating input	8 W
Motor rating output	1 W
Output at stirring shaft	1 W
Max. ON-time	100 %
Max. torque (plug-in coupling)	0,8 Ncm
Speed range	0 – 2.000 rpm
Speed display	none
Plug-in coupling Ø	4 mm
Support holder Ø	integrated (10 mm)
General data	
Dimensions (W x D x H)	86 x 175 x 89 mm
Weight	0,39 kg
Permissible ambient temperature	5 – 40 °C
Permissible relative humidity	80 %
Protection class acc. to DIN EN 60529	IP 42

1 off-white

Ident. No.	Design	
1 2830001	off-white	100 – 240 V 50/60 Hz
2 2830005	salmon pink	100 – 240 V 50/60 Hz
3 2830004	creamy blue	100 – 240 V 50/60 Hz
4 2830000	transparent	100 – 240 V 50/60 Hz



2 salmon pink



3 creamy blue



4 transparent

Technical data	
Stirring quantity (H ₂ O)	8 l
Max. viscosity	10.000 mPas
Motor rating input	28,5 W
Motor rating output	17 W
Output at stirring shaft	17 W
Max. ON-time	100 %
Max. torque at chuck	8 Ncm
Speed range	100 – 2.000 rpm
Speed display	scale
Chuck range	0,5 – 8 mm
Diameter / length of extension arm	13 / 160 mm
General data	
Dimensions without extension arm (W x D x H)	70 x 176 x 197 mm
Weight	2 kg
Permissible ambient temperature	5 – 40 °C
Permissible relative humidity	80 %
Protection class acc. to DIN EN 60529	IP 20

RW 14 basic

Quiet, economical laboratory stirrer with electronic infinitely adjustable speed. For stirring substances of low to medium viscosity. The laboratory stirrer is suitable for repeatedly setting the speed or processing media with substantial temporary viscosity changes.

- Constant speed due to electronic control
- Smooth operation due to direct drive
- Easy to operate
- Non-locking, overload capabilities

Accessories (page):
Stands (124): R 1825, R 1826, 1827,
R 182 Boss head clamp (126), RH 3 Strap clamp (126), R 301 Stirring shaft protection (48), R 301.1 Support holder (48), Stirring elements (46 / 47):
e.g. R 1342, FK 1 Flexible coupling (48)



Ident. No.	
3331400	230 V 50/60 Hz
3331401	115 V 50/60 Hz

EUROSTAR digital

Stirrer for quantities up to 20 l, page 40

Ident. No. 2482000

R 182

Boss head clamp, page 126

Ident. No. 2657700

RW 16 basic

Stirrer for quantities up to 10 l, page 40

Ident. No. 2572100

R 1373

Paddle stirrer, page 46

Ident. No. 0757600

R 1330

Anchor stirrer, page 46

Ident. No. 2022300

RH 3

Strap clamp, page 126

Ident. No. 3008600

R 1825

Plate stand, page 124

Ident. No. 3160000



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40 Electronic overhead stirrers



Ident. No.
2572100 230 V 50/60 Hz
2572101 115 V 50/60 Hz

RW 16 basic

Laboratory stirrer for simple stirring tasks of up to 10 liters (H₂O) with ideal speed range from 40 - 1.200 rpm. Especially suitable for schools, universities and inspection laboratories.

- Infinitely adjustable without gear shifting
- Slim casing
- Quiet operation
- Safety circuit
- Non-locking, overload capabilities

Accessories (page):

Stands (124): R 1825, R 1826, R 1827, R 182 Boss head clamp (126), FK 1 Flexible coupling (48), RH 3 Strap clamp (126), DZM control.o Revolution counter (129), R 301 Stirring shaft protection (48), Stirring elements (46 / 47): e.g. R 1342, R 1330, R 1373

Technical data	
Stirring quantity (H ₂ O)	10 l
Max. viscosity	10.000 mPas
Motor rating input	75 W
Motor rating output	55 W
Output at stirring shaft	53 W
Max. ON-time	100 %
Max. torque at chuck	40 Ncm
Speed range	40 – 1.200 rpm
Speed display	scale (1 – 10)
Chuck range	0,5 – 10 mm
Hollow shaft, inner diameter	11 mm
Diameter / length of extension arm	13 mm / 160 mm
General data	
Dimensions (W x D x H)	80 x 190 x 222 mm
Weight	2,8 kg
Permissible ambient temperature	5 – 40 °C
Permissible relative humidity	80 %
Protection class acc. to DIN EN 60529	IP 42



Ident. No.
2482000 230 V 50/60 Hz
2482001 115 V 50/60 Hz

EUROSTAR digital

Laboratory stirrer that can be used up to "medium viscosity" range.

- Constant speed through microprocessor control
- Digital display of set and actual speed
- Infinitely adjustable without gear shifting
- Slim casing
- Quiet operation
- Safety circuit
- Non-locking, overload capabilities
- Push-through agitator shafts
- Enhanced safety due to smooth start

Accessories (page):

Stands (124): R 1825, R 1826, R 1827, R 182 Boss head clamp (126), FK 1 Flexible coupling (48), RH 3 Strap clamp (126), R 301 Stirring shaft protection (48), Stirring elements (46 / 47): e.g. R 1342, R 1330, R 1373

Technical data	
Stirring quantity (H ₂ O)	20 l
Max. viscosity	10.000 mPas
Motor rating input	75 W
Motor rating output	55 W
Output at stirring shaft	53 W
Max. ON-time	100 %
Max. torque at chuck	30 Ncm
Speed range	50 – 2.000 rpm
Speed display	digital
Chuck range	0,5 – 10 mm
Hollow shaft, inner diameter	11 mm
Diameter / length of extension arm	13 mm / 160 mm
General data	
Dimensions (W x D x H)	80 x 190 x 222 mm
Weight	2,8 kg
Permissible ambient temperature	5 – 40 °C
Permissible relative humidity	80 %
Protection class acc. to DIN EN 60529	IP 42

Technical data	
Stirring quantity (H ₂ O)	40 l
Max. viscosity	50.000 mPas
Motor rating input	130 W
Motor rating output	110 W
Output at stirring shaft	105 W
Max. ON-time	100 %
Max. torque at chuck	60 Ncm
Speed range	50 – 2.000 rpm
Speed display	scale
Chuck range	0,5 – 10 mm
Hollow shaft, inner diameter	11 mm
Diameter / length of extension arm	16 mm / 200 mm
General data	
Dimensions (W x D x H)	80 x 190 x 253 mm
Weight	3,8 kg
Permissible ambient temperature	5 – 40 °C
Permissible relative humidity	80 %
Protection class acc. to DIN EN 60529	IP 42
Interface	analog

Technical data	
Stirring quantity (H ₂ O)	40 l
Max. viscosity	50.000 mPas
Motor rating input	130 W
Motor rating output	110 W
Output at stirring shaft	105 W
Max. ON-time	100 %
Max. torque at chuck	60 Ncm
Speed range	50 – 2.000 rpm
Speed display	digital
Chuck range	0,5 – 10 mm
Hollow shaft, inner diameter	11 mm
Diameter / length of extension arm	16 mm / 200 mm
General data	
Dimensions (W x D x H)	80 x 190 x 253 mm
Weight	3,8 kg
Permissible ambient temperature	5 – 40 °C
Permissible relative humidity	80 %
Protection class acc. to DIN EN 60529	IP 42
Interface	RS 232 / analog
Torque measurement	trend

EUROSTAR power basic

Powerful laboratory stirrer for tasks up to "high viscosity" range.

- Constant speed through microprocessor control
- Infinitely adjustable without gear shifting
- Slim casing
- Quiet operation
- Safety circuit
- Non-locking, overload capabilities
- Push-through agitator shafts
- Enhanced safety due to smooth start
- Analog recording of speed parameters is possible

Accessories (page):

Stands (124 / 125): R 2722, R 2723, R 271 Boss head clamp (126), FK 1 Flexible coupling (48), RH 5 Strap clamp (126), VK 600 control (149), DZM control.o Revolution counter (129), R 301 Stirring shaft protection (48), Stirring elements (46 / 47): e.g. R 1345, R 1375



Ident. No.
2572200 230 V 50/60 Hz
2572201 115 V 50/60 Hz

EUROSTAR power control-visc

Powerful, digital laboratory stirrer for tasks up to "high viscosity" range. Same features as EUROSTAR power basic, additionally: labworldsoft® software is available to allow speed and torque parameters to be controlled, regulated and documented via PC.

- Digital display of rated - / actual speed
- Integrated torque trend display for viscosity control
- Analog interface for recording speed and torque
- RS 232 interface

Accessories (page):

Stands (124 / 125): R 2722, R 2723, R 271 Boss head clamp (126), FK 1 Flexible coupling (48), RH 5 Strap clamp (126), VK 600 control Revolution counter (149), R 301 Stirring shaft protection (48), Stirring elements (46 / 47): e.g. R 1345, R 1375, labworldsoft® (153), RC 1 Remote control (49), AM 1 Analog module (130)



Ident. No.
2600000 230 V 50/60 Hz
2600001 115 V 50/60 Hz



IKA® Mixing

Electronic overhead stirrers

IKA® Mixing

Electronic overhead stirrers



Ident. No.
3460000 230 V 50/60 Hz
3460001 115 V 50/60 Hz



Ident. No.
3330000 230 V 50/60 Hz



EUROSTAR power control-visc 6000

High-performance digital laboratory stirrer for tasks up to "medium viscosity" range. Same features as EUROSTAR power control-visc (page 41), additionally:

- Speed range up to 6.000 rpm
- Agitator shafts are not push-through
- Cone seat for precision shaft, incl. with delivery (stirring elements can be screw-connected, please order separately, see page 48)
- Analog output of speed and torque

Accessories (page):

Stands (124 / 125): R 2722, R 2723, R 271 Boss head clamp (126), RH 5 Strap clamp (126), R 301 Stirring shaft protection (48), R 1402 Dissolver (48), R 1405 Propeller (48), R 1401 Propeller (48), labworldsoft® (153), RC 1 Remote control (49), AM 1 Analog module (130)

Technical data	
Stirring quantity (H ₂ O)	20 l
Max. viscosity	10.000 mPas
Motor rating input	130 W
Motor rating output	110 W
Output at stirring shaft	95 W
Max. ON-time	100 %
Max. torque at chuck	15 Ncm
Speed range	150 – 6.000 rpm
Speed display	digital
Diameter / length of extension arm	16 mm / 220 mm
General data	
Dimensions (W x D x H)	80 x 190 x 317 mm
Weight	4,8 kg
Permissible ambient temperature	5 – 40 °C
Permissible relative humidity	80 %
Protection class acc. to DIN EN 60529	IP 42
Interface	RS 232 / analog
Torque measurement	trend

EUROSTAR power control-visc P1

Powerful, digital laboratory stirrer for tasks up to "high viscosity" range.

- Constant speed through microprocessor control
- Infinitely adjustable without gear shifting
- Slim casing
- Quiet operation
- Safety circuit
- Non-locking, overload capabilities
- Push-through agitator shafts
- Enhanced safety due to smooth start
- Digital display of rated- and actual speed
- Integrated torque trend display for viscosity control
- Analog interface for recording speed and torque
- RS 232 interface
- Software labworldsoft® is available to control and document all measuring values via PC

Accessories (page):

Stands (124 / 125): R 2722, R 2723, R 271 Boss head clamp (126), RH 5 Strap clamp (126), VK 600 control Torque measurement instrument (149), R 301 Stirring shaft protection (48), Stirring elements (46 / 47): e.g. R 1331, R 1312, labworldsoft® (153), RC 1 Remote control (49), AM 1 Analog module (130)

Technical data	
Stirring quantity (H ₂ O)	60 l
Max. viscosity	70.000 mPas
Motor rating input	153 W
Motor rating output	134 W
Output at stirring shaft	126 W
Max. ON-time	100 %
Max. torque at chuck	100 Ncm
Speed range	50 – 1.200 rpm
Speed display	digital
Chuck range	0,5 – 10 mm
Hollow shaft, inner diameter	11 mm
Diameter / length of extension arm	16 mm / 200 mm
General data	
Dimensions (W x D x H)	80 x 190 x 253 mm
Weight	4 kg
Permissible ambient temperature	5 – 40 °C
Permissible relative humidity	80 %
Protection class acc. to DIN EN 60529	IP 42
Interface	RS 232 / analog
Torque measurement	trend

EUROSTAR power control-visc P4	
Transmission reduction	4-fold
Stirring quantity (H ₂ O)	40 l
Max. viscosity	100.000 mPas
Motor rating input	130 W
Motor rating output	110 W
Output at stirring shaft	95 W
Max. ON-time	100 %
Max. torque at chuck	200 Ncm
Speed range	14 – 530 rpm
Speed display	digital
Chuck range	0,5 – 10 mm
Diameter / length of extension arm	16 mm / 200 mm
General data	
Dimensions (W x D x H)	80 x 190 x 330 mm
Weight	4,9 kg
Permissible ambient temperature	5 – 40 °C
Permissible relative humidity	80 %
Protection class acc. to DIN EN 60529	IP 42
Interface	RS 232 / analog
Torque measurement	trend

EUROSTAR power control-visc P7	
Transmission reduction	7-fold
Stirring quantity (H ₂ O)	40 l
Max. viscosity	150.000 mPas
Motor rating input	130 W
Motor rating output	110 W
Output at stirring shaft	95 W
Max. ON-time	100 %
Max. torque at chuck	380 Ncm
Speed range	8 – 290 rpm
Speed display	digital
Chuck range	0,5 – 10 mm
Diameter / length of extension arm	16 mm / 200 mm
General data	
Dimensions (W x D x H)	80 x 190 x 330 mm
Weight	4,9 kg
Permissible ambient temperature	5 – 40 °C
Permissible relative humidity	80 %
Protection class acc. to DIN EN 60529	IP 42
Interface	RS 232 / analog
Torque measurement	trend

EUROSTAR power control-visc P4
EUROSTAR power control-visc P7

Powerful, digital laboratory stirrer for tasks up to "high viscosity" range.

- Constant speed through microprocessor control
- Infinitely adjustable without gear shifting
- Slim casing
- Quiet operation
- Safety circuit
- Non-locking, overload capabilities
- Enhanced safety due to smooth start
- Digital display of rated- and actual speed
- Integrated torque trend display for viscosity control
- Analog interface for recording speed and torque
- RS 232 interface
- Software labworldsoft® is available to control and document all measuring values via PC

P4 with 4-fold transmission reduction and P7 with 7-fold transmission reduction; agitator shafts are not push-through.

Accessories (page):

Stands (124 / 125): R 2722, R 2723, R 271 Boss head clamp (126), RH 5 Strap clamp (126), VK 600 control Torque measurement instrument (149), R 301 Stirring shaft protection (48), Stirring elements (46 / 47): e.g. R 1331, R 1312, labworldsoft® (153), RC 1 Remote control (49), AM 1 Analog module (130)



EUROSTAR power c.-v. P4
Ident. No.
2850000 230 V 50/60 Hz
2850001 115 V 50/60 Hz

EUROSTAR power c.-v. P7
Ident. No.
2850700 230 V 50/60 Hz
2850701 115 V 50/60 Hz



IKA® Mixing

Mechanical overhead stirrers

IKA® Mixing

Mechanical overhead stirrers



Ident. No.
3593000 230 V 50/60 Hz
3593001 115 V 50/60 Hz

RW 20 digital

Overhead stirrer with digital display. Technical improvements on the trusted RW 20 series designs.

- With digital display
- Robust, slim line, ergonomic design
- With constant power-drive
- Two speed ranges for universal use from 60 - 2.000 rpm
- Push-through agitator shafts (only when stationary)

Accessories (page):

Stands (124): R 1825, R 1826, R 1827, R 182 Boss head clamp (126), FK 1 Flexible coupling (48), RH 3 Strap clamp (126), VK 600 control Torque measurement instrument (149), R 301 Stirring shaft protection (48), Stirring elements (46 / 47): e.g. R 1342, R 1381, VK 60/01 Adapter (149)

Technical data	
Stirring quantity (H ₂ O)	20 l
Max. viscosity	10.000 mPas
Motor rating input	70 W
Motor rating output	35 W
Output at stirring shaft	26 W
Max. ON-time	100 %
Max. torque at chuck	150 Ncm
Speed range I (per 50 Hz)	60 – 500 rpm
Speed range II (per 50 Hz)	240 – 2.000 rpm
Speed display	digital
Chuck range	0,5 – 10 mm
Diameter / length of extension arm	13 mm / 160 mm
General data	
Dimensions (W x D x H)	88 x 212 x 294 mm
Weight	3,1 kg
Permissible ambient temperature	5 – 40 °C
Permissible relative humidity	80 %
Protection class acc. to DIN EN 60529	IP 20



Ident. No.
2760000 230 V 50/60 Hz
2760001 115 V 50/60 Hz

RW 28 basic

Powerful, mechanically controlled stirrer. Suitable for quantities up to 80 l (H₂O) for use in laboratories and pilot plant stations.

- Two selectable speed ranges for high viscosity (range I) or intensive mixing (range II)
- Push-through agitator shafts

Accessories (page):

Stands (124 / 125): R 2722, R 2723, R 271 Boss head clamp (126), FK 1 Flexible coupling (48), RH 5 Strap clamp (126), R 301 Stirring shaft protection (48), R 301.1 Support holder (48), Stirring elements (46 / 47): e.g. R 1345, R 1300

Technical data	
Stirring quantity (H ₂ O)	80 l
Max. viscosity	50.000 mPas
Motor rating input	220 W
Motor rating output	90 W
Output at stirring shaft	90 W
Max. ON-time	100 %
Max. torque at chuck	
per 60 rpm	1.144 Ncm
per 100 rpm	900 Ncm
per 1.000 rpm	86 Ncm
Speed range I (per 50 Hz)	60 – 400 rpm
Speed range II (per 50 Hz)	240 – 1.400 rpm
Speed range I (per 60 Hz)	72 – 480 rpm
Speed range II (per 60 Hz)	288 – 1.680 rpm
Speed display	scale
Chuck range	1 – 10 mm
Hollow shaft, inner diameter	10,5 mm
Diameter / length of extension arm	16 mm / 145 mm
General data	
Dimensions (W x D x H)	123 x 252 x 364 mm
Weight	7,4 kg
Permissible ambient temperature	5 – 40 °C
Permissible relative humidity	80 %
Protection class acc. to DIN EN 60529	IP 42

Technical data	
Stirring quantity (H ₂ O)	80 l
Max. viscosity	50.000 mPas
Motor rating input	270 W
Motor rating output	180 W
Output at stirring shaft	135 W
Max. ON-time	100 %
Max. torque at chuck	
per 60 rpm	1.515 Ncm
per 100 rpm	911 Ncm
per 1.000 rpm	91 Ncm
Speed range I (per 50 Hz)	40 – 370 rpm
Speed range II (per 50 Hz)	120 – 1.400 rpm
Speed range I (per 60 Hz)	48 – 444 rpm
Speed range II (per 60 Hz)	144 – 1.680 rpm
Speed display	scale
Chuck range	1 – 10 mm
Diameter / length of extension arm	16 mm / 160 mm
General data	
Dimensions (W x D x H)	140 x 279 x 468 mm
Weight	9,3 kg
Permissible ambient temperature	5 – 40 °C
Permissible relative humidity	80 %
Protection class acc. to DIN EN 60529	IP 54

RW 28 D

Powerful, mechanically controlled stirrer with AC motor and high IP protection class. Suitable for quantities up to 80 l (H₂O) for use in laboratories and pilot plant stations.

- Two selectable speed ranges for high viscosity (range I) or intensive mixing (range II)
- Agitator shafts are not push-through
- Cables with plugs not included in delivery

Accessories (page):

Stands (124 / 125): R 2722, R 2723, R 271 Boss head clamp (126), RH 5 Strap clamp (126), R 301 Stirring shaft protection (48), R 301.1 Support holder (48), Stirring elements (46 / 47): e.g. R 1345, R 1301



Ident. No.
3297000 3 x 400 V 50 Hz
3297006 3 x 230 V 60 Hz

RW 47 D

The most powerful IKA® stirrer for laboratories, pilot plant stations and small-scale production.

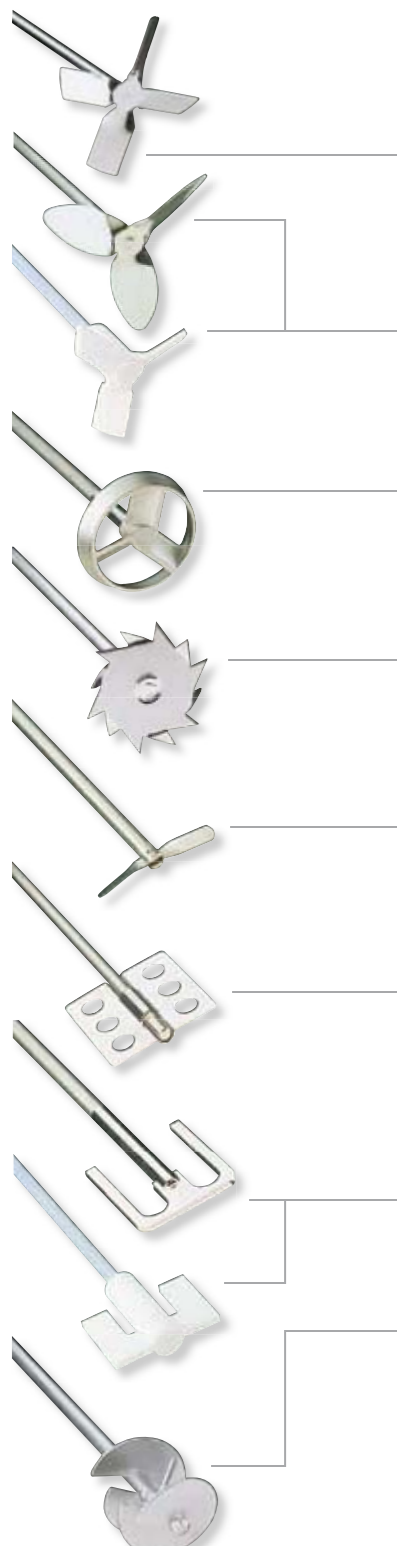
- For stirring tasks up to 200 l (H₂O)
- Two speed ranges for highly viscous material and intensive mixing
- Cables with plugs not included in delivery

Accessories (page):

R 472 Floor stand (125), R 474 Telescopic stand (125), R 302 Stirring shaft protection (49), Stirring elements (46 / 47): e.g. R 2305, R 2311, SI 400 Safety switch (49), Fixing devices (49): SI 472, SI 474



Ident. No.
1602000 3 x 400 V 50 Hz
1602010 3 x 230 V 60 Hz



Propeller stirrer, 4-bladed

Standard stirring element. For drawing the material to be mixed from the top to the bottom. Local shearing forces. Generates axial flow in the vessel. Used at medium to high speeds

Propeller stirrer, 3-bladed

Flow-efficient design. For drawing the material to be mixed from the top and the bottom. Minimum shearing forces. Used at medium to high speeds.

Turbine stirrer

For drawing the material to be mixed from above. Generates axial flow in the vessel. Minimum danger of injury when contact is made with vessel. Minimum shearing forces. Used at medium to high speeds.

Dissolver stirrer

Radial flow, for drawing the material to be mixed from the top and the bottom. High turbulence, high shearing forces. Particle reduction. Used at medium to high speeds.

Centrifugal stirrer

Two-bladed, blades open with increasing speed. For stirring in round vessels with narrow necks. Effect is similar to that of a 4-bladed propeller stirrer. Medium to high speeds required.

Paddle stirrer

Tangential flow, minimum turbulence, good heat exchange, gentle treatment of product. Used at low to medium speeds.

Anchor stirrer

Tangential flow, high shearing rate at edges, minimum deposits on the vessel wall. Used at low speeds. Polymer reactions, even distribution of high mineral contents in liquids. The ideal stirrer for medium to highly viscous fluids.

Kneading stirrer

Tangential flow with oscillating compacting between the kneading surfaces. Minimum deposits on vessel. Used at low speeds.

	Ident. No.	Stirrer-Ø	Shaft Ø	Shaft length	Max. speed	RW 14 basic RW 16 basic	EUROSTAR digital	EUROSTAR power basic / power control-visc / P1	EUROSTAR power control-visc P4 / P7	RW 20 digital	RW 28 basic / RW 28 D	RW 47 D
Propeller stirrer, 4-bladed												
R 1342	0741000	50 mm	8 mm	350 mm	2.000 rpm	•	•	•	•	•		
R 1345	0741300	100 mm	8 mm	540 mm	800 rpm			•	•		•	•
R 2305	0739300	150 mm	13 mm	550 mm	1.300 rpm							•
R 2302	0739000	150 mm	13 mm	800 mm	600 rpm							•
Propeller stirrer, 3-bladed												
R 1381	1296000	45 mm	8 mm	350 mm	2.000 rpm	•	•	•	•	•		
R 1382	1295900	55 mm	8 mm	350 mm	2.000 rpm	•	•	•	•	•		
R 1385	0477700	140 mm	10 mm	550 mm	800 rpm						•	•
R 1388	0477800	140 mm	10 mm	800 mm	400 rpm						•	•
R 1389 (PTFE-coated)	2343600	75 mm	8 mm	350 mm	800 rpm	•	•	•	•	•		
Turbine stirrer												
R 1311	2332900	30 mm	8 mm	350 mm	2.000 rpm	•	•	•	•	•		
R 1312	2333000	50 mm	8 mm	350 mm	2.000 rpm	•	•	•	•	•		
R 1313	2333100	70 mm	10 mm	400 mm	800 rpm			•	•		•	
Dissolver stirrer												
R 1300	0513500	80 mm	8 mm	350 mm	2.000 rpm		•	•		•	•	
R 1302	2387900	100 mm	10 mm	350 mm	1.000 rpm			•			•	•
R 1303	2746700	42 mm	8 mm	350 mm	2.000 rpm	•	•	•		•		
Centrifugal stirrer												
R 1352	0756900	60 / 15 mm	8 mm	350 mm	2.000 rpm	•	•	•		•		
R 1355	1132700	100 / 24 mm	8 mm	550 mm	800 rpm			•			•	•
Paddle stirrer												
R 1373	0757600	70 mm	8 mm	350 mm	1.000 rpm		•	•	•	•	•	
R 1375	0757700	70 mm	8 mm	550 mm	800 rpm			•		•	•	
R 1376	0757800	150 mm	10 mm	550 mm	800 rpm				•		•	•
R 2311	0739500	150 mm	13 mm	800 mm	600 rpm							•
Anchor stirrer												
R 1330	2022300	45 mm	8 mm	350 mm	1.000 rpm	•	•	•	•	•		
R 1331	2022400	90 mm	8 mm	350 mm	1.000 rpm			•		•	•	
R 1332 (PTFE-coated)	2343700	60 mm	8 mm	350 mm	800 rpm	•	•	•	•	•	•	
R 1333	2747400	150 mm	10 mm	550 mm	800 rpm				•		•	•
Kneading stirrer												
R 1335	2022500	45 mm	8 mm	350 mm	2.000 rpm	•	•	•	•	•		

IKA® Mixing

Overhead stirrers accessories

IKA® Mixing
Overhead stirrers accessoriesIdent. No.
0527400**R 1001 Paddle stirrer**

Spare for use with RW 11 basic.

Ident. No.
0527500**R 1002 Screw-type stirrer**

For use with RW 11 basic.

Ident. No.
1242900 R 1401
1243300 R 1402
1289800 R 1405**R 1401 Propeller****R 1402 Dissolver****R 1405 Propeller**

For use with EUROSTAR power control-visc 6000.

Ident. No.
2336000**FK 1 Flexible coupling**

Required for stirring tasks using glass stirring rods. The flexible coupling compensates for any structural variances.

Ident. No.
2603000**R 301 Stirring shaft protection**

Prevents potential injuries at the rotating shafts and stirring elements. Can be directly attached to the stirring motors RW 16 basic, RW 20 digital and the EUROSTAR series.

Ident. No.
2604000**R 301.1 Support holder**

For fixing the stirring shaft protection R 301 to the stand.

Accessories (page):
Boss head clamp (126): R 182, R 270

General data	
Shaft length	160 mm
Shaft Ø	4 mm
Stirrer Ø	34 mm

General data	
Shaft length	140 mm
Shaft Ø	4 mm
Stirrer Ø	12 mm

R 1401 Propeller	
Working range	1 – 30 l
Rotor diameter	55 mm
R 1402 Dissolver	
Working range	1 – 30 l
Rotor diameter	42 mm
R 1405 Propeller	
Working range	0,25 – 30 l
Rotor diameter	45 mm

General data	
Clamping range	6 – 10 mm
Max. torque	10 Ncm

General data	
Length adjustment	190 – 310 mm
Material	plexiglass

General data	
Length	275 mm
Diameter extension arm	13 mm

General data	
Dimensions (W x D x H)	139 x 99 x 250 mm
Material	macrolon

General data	
Dimensions end switch (W x D x H)	84 x 19 x 16 mm
Dimensions switch contact (W x D x H)	73 x 10 x 19 mm
Contact	1 normally closed contact

Casing material	plastic (ABS)
Protection class	IP 67
Operating temperature	-10 – 65 °C
Voltage / current	max. 250 VAC / 2A

General data	
Dimensions	80 x 80 mm

General data	
Dimensions (W x D x H)	95 x 83 x 20 mm

General data	
Power supply	Two 1.5 V batteries (included with unit)
Max. cable length	10 m
Power consumption remote	
Off-state	ca. 7 µA
On-state	ca. 7 mA
Dimensions (W x D x H)	65 x 140 x 30 mm
Weight (incl. battery)	0,3 kg

R 302 Stirring shaft protection

Prevents potential injuries due to the rotating shafts and stirring elements. Can be directly attached to the stirrer RW 47 D.

SI 400 Safety switch

The SI 400 consists of an end switch (normally closed contact / switch) and a magnetic switch contact (actuator) which is mounted on the floor stand R 472 with the fixing device SI 472 and on the telescopic stand R 474 with the fixing device SI 474. The stirring unit RW 47 can only be switched on through the SI 400, when the agitator is adjusted in the mixing vessel to the user designated height. The power of the RW 47 automatically shuts off if the stirring unit is lifted off the designated height. Also suitable for dispersing instrument T 65 D ULTRA-TURRAX®.

Accessories (page):
Fixing devices (49): SI 472, SI 474**SI 472 Fixing device**

To attach the safety switch SI 400 to the floor stand R 472.

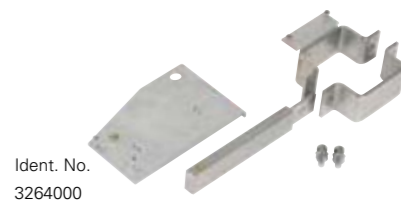
SI 474 Fixing device

To attach the safety switch SI 400 to the telescopic stand R 474 and to the telescopic stand T 653 (for T 65 D ULTRA-TURRAX®).

RC 1 Remote control

Remote control to operate the Eurostar power control-visc (also P1, P4 and P7) over a 10 m cable.

- Provides problem-free control of stirrers even under load
- Monitoring of actual speed and transmission of setpoint
- Displays actual speed, target speed and overload status

Ident. No.
2953800Ident. No.
3294800Ident. No.
3264000Ident. No.
3264400Ident. No.
3232000

Accessories



ETS-D5

Electronic contact thermometer ensures perfect temperature control without overshooting the set temperature, even in the case of quick heating. With optimized PID control and RESET function, incl. stainless steel sensor H 62.51.

Page 127

Stands	124 – 125
Fixing elements	126
Temperature measuring instrument	127 – 128
Revolution counter	129
Vacuum controller	130
Vacuum pump / valve	131

IKA® Mechanical accessories

124 Stands

IKA® Mechanical accessories

Stands 125



Ident. No. 2972500	Ident. No. 3386000	Ident. No. 3160000	Ident. No. 3160100	Ident. No. 3160200	Ident. No. 1412000
		R 1825	R 1826	R 1827	

R 103 Plate stand

Suitable for small instruments such as the overhead stirrer RW 11 basic.

Accessories (page):
Boss head clamp H 44 (126)

R 104 Stand

Small stand for T 10 basic.

Accessories (page):
R 200 Clamp (126),
H 44 Boss head clamp (126)

Plate stands

R 1825
R 1826
R 1827

With slip resistant foil.

Accessories (page):
Boss head clamp R 182 (126), RH 3 Strap clamp (126)

R 2722 H-Stand

Particularly stable stand with H-shape base which prevents the stand from tipping backwards. Provides optimum stability required for larger, heavier instruments and attachments, for example with rheological measurements using overhead stirrers. The stand has an adjustment screw which can be used to compensate for an uneven laboratory table surface.

Accessories (page):
Boss head clamps (126):
R 270, R 271, RH 5 Strap clamp (126)



Ident. No. 1412100	Ident. No. 3154100	Ident. No. 1608000	Ident. No. 1643000	Ident. No. 0738700
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R 2723 Telescopic stand

Similar to R 2722, additionally equipped with a pneumatic spring stand rod, which enables heavy instruments / attachments to be raised and lowered smoothly without difficulty, e.g. with rheological measurements using overhead stirrers. The stand has an adjustment screw which can be used to compensate for an uneven laboratory table surface.

Accessories (page):
Boss head clamps (126):
R 270, R 271, RH 5 Strap clamp (126)

RV 05.3 Telescopic stand

Specially designed for the rotary evaporator drive RV 05. Raising is made easier by a jolt-free pneumatic spring.

Accessories (page):
Boss head clamp R 271 (126)

T 653 Telescopic stand

Specially designed for the dispersing instrument T 65 D. The stand is equipped with a pneumatic spring which enables effortless raising and lowering of the dispersion unit.

R 474 Telescopic stand

Specially designed for the overhead stirrer RW 47 D; can be adapted for use with other instruments. The stand is equipped with a pneumatic spring which enables effortless raising and lowering of the dispersion unit.

Accessories (page):
SI 400 Safety switch (49),
SI 474 Fixing device (49)

R 472 Floor stand

Mobile floor stand, specially designed for the overhead stirrer RW 47 D; can be adapted for use with other instruments.

Accessories (page):
SI 400 Safety switch (49),
SI 472 Fixing device (49)

Descriptor	R 103 Plate stand	R 104 Stand	R 1825	R 1826	R 1827	R 2722 H-Stand	R 2723 Telescopic stand	RV 05.3 Telescopic stand	T 653 Telescopic stand	R 474 Telescopic stand	R 472 Floor stand
Ident. No.	2972500	3386000	3160000	3160100	3160200	1412000	1412100	3154100	1608000	1643000	0738700
Diameter of support rod	10 mm	10 mm			16 mm	34 mm	34 mm	34 mm	48 mm	48 mm	80 x 80 mm
Plate diameter	160 mm					-	-	-	-	-	-
Dimensions (W x D)	-	242 x 355 mm			200 x 316 mm	460 x 420 mm	460 x 420 mm	580 x 450 mm	460 x 530 mm	460 x 530 mm	950 x 950 mm
Height	360 mm	370 mm	560 mm	800 mm	1.000 mm	1.010 mm	620 – 1.010 mm	710 – 900 mm	1.200 mm	1.200 mm	2.020 mm
Max. load	1 kg	0,7 kg			5 kg	10 kg	10 kg	10 kg	-	-	-
Stroke	-	-			-	-	390 mm	190 mm	500 – 1.000 mm	500 – 1.000 mm	980 – 1.860 mm

IKA® Mechanical accessories

126 Fixing elements



Ident. No.
2437700

H 44 Boss head clamp



Ident. No.
2657700

R 182 Boss head clamp



Ident. No.
2657800

R 270 Boss head clamp



Ident. No.
2664000

R 271 Boss head clamp

Specialized clamp with openings for the stands R 2722 (page 124) and R 2723 (page 125) as well as extensions with Ø 16 mm.



Ident. No.
3372000

R 200 Clamp

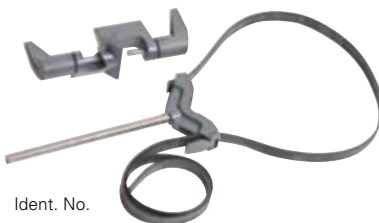
For fastening the T 10 basic to the stand R 104 (page 124) (included with delivery of T 10 basic).



Ident. No.
3008600

RH 3 Strap clamp

For securing vessels against walls or for synchronized rotation during stirring or dispersing.



Ident. No.
3159000

RH 5 Strap clamp

For securing vessels against walls or for synchronized rotation during stirring or dispersing, incl. boss head clamp R 270 (page 126).

General data	
Clamping range - stand	10 – 11 mm
Clamping range - extension arm	11 mm
Material	cast aluminum

General data	
Clamping range - stand	6 – 16 mm
Clamping range - extension arm	6 – 16 mm
Material	cast aluminum

General data	
Clamping range - stand	25 – 36 mm
Clamping range - extension arm	5 – 21 mm
Material	cast aluminum

General data	
Clamping range - stand	34 mm
Clamping range - extension arm	16 mm
Material	cast aluminum

General data	
Diameter of extension arm	8 mm
Length of extension arm	130 mm

General data	
For stand diameter	8 – 16 mm
For vessel diameter	40 – 300 mm

General data	
For stand diameter	25 – 36 mm
For vessel diameter	40 – 300 mm

Temperature	
Temperature measuring range	-50 – 450 °C
Resolution	0,1 K
Measuring accuracy	± 0,2 K + Sensor tolerance PT 1000 DIN IEC 751 class A

General data	
Supply voltage	8 – 16 VDC
Power consumption	10 mA (at 9 V)
Max. ON time	100 %

Plug	6 pin DIN 45322
Connection	DIN 12878 class 2
Dimensions (W x D x H)	82 x 22 x 83 mm (without sensor)
Weight	0,2 kg
Permissible ambient temperature	0 – 60 °C
Permissible relative humidity	80 %
Protection class acc. to DIN EN 60529	IP 54

Temperature	
Temperature measuring range	-50 – 450 °C
Resolution	0,01 K
Measuring accuracy	± 0,05 K + Sensor tolerance PT 1000 DIN IEC 751 class A

Setting accuracy	0,1 K
Control deviation	± 0,2 K
pH measurement	
Measuring range	0 – 14 pH
Accuracy	± 0,1 pH
Resolution	± 0,01 pH
pH connection	BNC bushing

General data	
Supply voltage	8 – 16 VDC
Power consumption	15 mA (at 9 V)
Max. ON time	100 %

Plug	6 pin DIN 45322
Connection	DIN 12878 class 2
Dimensions (W x D x H)	96 x 45 x 98 mm (without sensor)
Weight	0,2 kg
Permissible ambient temperature	0 – 60 °C
Permissible relative humidity	80 %
Protection class acc. to DIN EN 60529	IP 54

IKA® Electronic accessories

Temperature measuring instrument 127

Electronic Contact Thermometers ETS-D5 and ETS-D6

Ensures perfect temperature control without overshooting the set temperature, even in the case of quick heating. With optimized PID control and RESET function, incl. stainless steel sensor H 62.51. For all magnetic stirrers with contact thermometer bushing according to DIN 12878, class 2 (e.g. IKA®, Heidolph and Corning with adapter AD-C1, Ident. No. 3414000, please order separately).

ETS-D6 additionally:

- With integrated pH measuring instrument (without pH electrode)
- Large, graphic LCD display with multilingual user guide
- Software labworldsoft® is available to document all measured values via PC

3 modes of operation guarantee optimum adjustment to your working method.

Operating mode A

Suitable for work with varying parameters (from -50 °C to 450 °C). Safety temperature adjustable.

Operating mode B

Suitable for series operation under uniform conditions.

Operating mode C

Suitable for unsupervised operation.

All values are taken from the memory. This ensures perfect protection against inadvertent improper adjustment.

Accessories ETS-D5 and ETS-D6 (page):

Sensors (28): H 62.51, H 66.51, H 70 Extension cable (28), H 52 Power pack set (28), H 16 V Support rod (33), H 44 Boss head clamp (33), H 38 Holding rod (33)



ETS-D5
Ident. No.
3378000



ETS-D6
Ident. No.
3378100



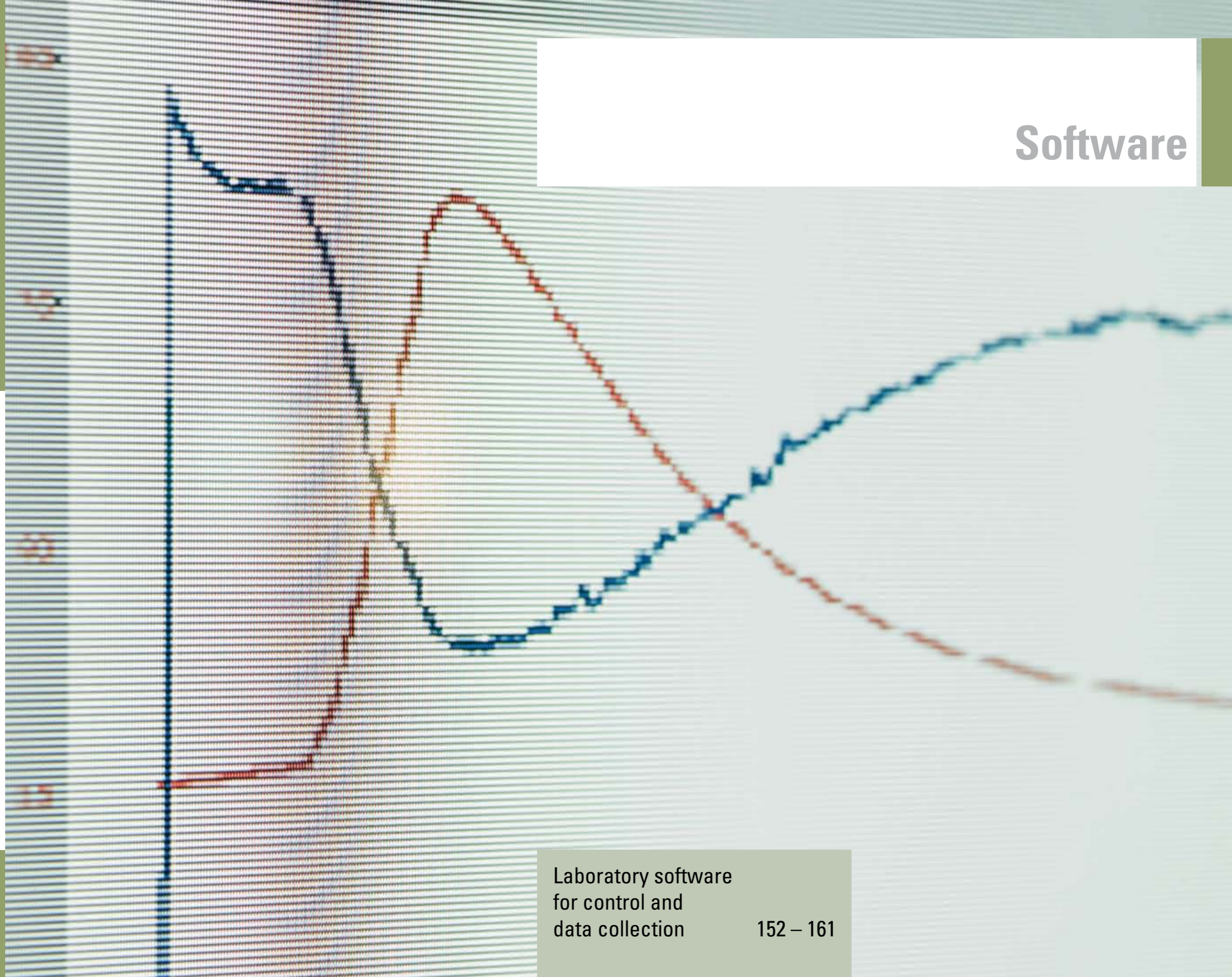
Software



labworldsoft®

Eases life in the laboratory. With this laboratory software, you can network up to 64 laboratory devices simultaneously via one PC. That makes the automation of your laboratory experiments and processes possible.

Page 152 / 153



Laboratory software
for control and
data collection

152 – 161



labworldsoft®

With this laboratory software, you can network up to 64 laboratory devices simultaneously via one PC.

labworldsoft®

With this laboratory software, you can network up to 64 laboratory devices simultaneously via one PC. That makes the automation of your laboratory experiments and processes possible.

Measurements and processes may be run independently from one another. This helps to avoid long waits and you increase your productivity. The communication between PC and laboratory device is performed via the serial interface RS 232 (COM1 or COM2).

With the help of plug-in cards and Ethernet RS 232 servers, up to 64 laboratory devices can be used simultaneously via one PC. All laboratory instruments can be controlled independently from each other and the measured values (speed, temperature, torque, pH, etc.) can be documented separately.

Hard- and software requirements:

Pentium 90 with at least 16 MB RAM, and a mouse. VGA display: monochrome with at least 16 levels of grey or color. Windows 95/98/2000/NT/ME/XP/Vista.

Accessories (page):

PCI 8.2 Plug-in card (157), PC 4.1 RS 232 Server (157), DC 2 DATACONTROL (157), DA 2 DATACONTROL (157), IO 2 DATACONTROL (158)

Networking, monitoring

With labworldsoft® you can network up to 64 laboratory instruments simultaneously via one PC. From sample preparation to synthesis, all steps of research and development in the lab can be automated using labworldsoft®.

Controlling

Desired temperature and speed sequences can be precisely controlled by means of freely selectable ramp functions. The ramp functions can be graphically generated, stored, and then loaded again at any time.

Recording, evaluating

labworldsoft® enables a fast and easy recording of many physical parameters which are required in the laboratory, such as pH, conductivity, temperature, torque, weight, pump rates etc.

Exporting

Data recorded using labworldsoft® can be directly written to an Excel sheet or exported to any standard application at a later stage.

Storing / reproducing measured data

Do your test arrangements repeat themselves? With labworldsoft® all test arrangements can be stored. The stored data is available to reproduce the test, with one mouse click. The reproducibility of tests is warranted within the scope of ISO 9000 and within GLP.

Documentation

For documentation purposes, all measuring results as well as the measurement flowcharts can be printed or plotted according to GLP, ISO and QA.

For more information and a download of your free trial version please visit: www.labworldsoft.com



Ident. No.
2970000



Manufactures with interface devices compatible to labworldsoft®:

- Ahlborn
- B. Braun Biotech
- Martin Christ
- Ehret
- Eyela
- Fluid
- Fritsch
- Gerhardt
- GFL
- Harvard
- Heidolph
- Hermle
- Huber
- IKA®
- Ilmvac
- Infors
- Ismatec
- Julabo
- Kern
- KNF
- Knick
- Labovisco
- Lauda
- Metrohm
- Mettler-Toledo
- MLT
- PolyScience
- Sartorius
- Scaltec
- Sigma
- Telab
- Thermo Haake
- Thermo Neslab
- Troemner
- Vaccubrand
- yellowline

Interfaces to additional devices from other manufacturers will soon be available. Please ask for a current reference list.

IKA® Software

labworldsoft®

IKA® Software

labworldsoft®

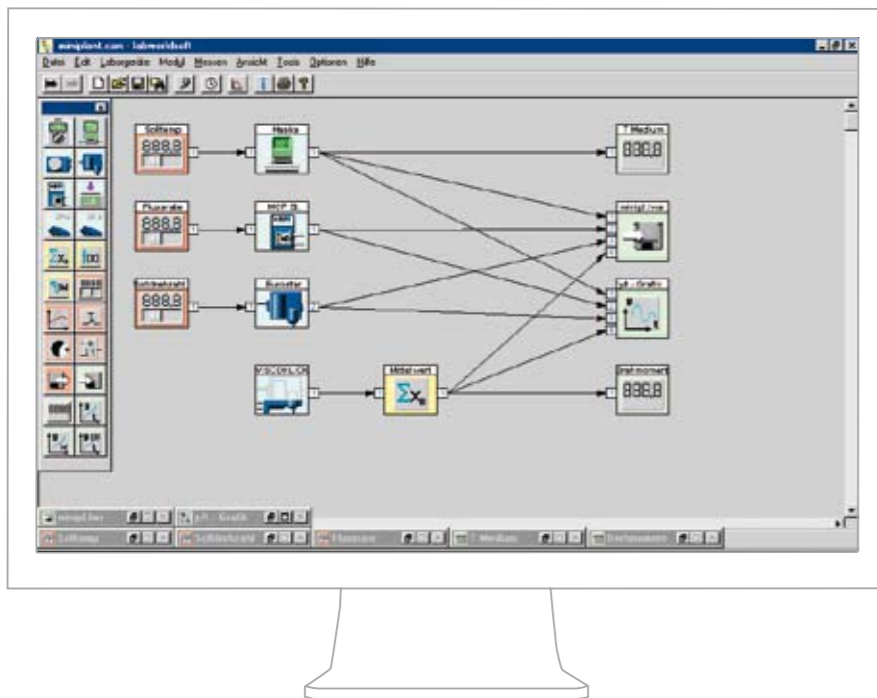


Figure 1: Configuration of a laboratory reactor with peripherals.

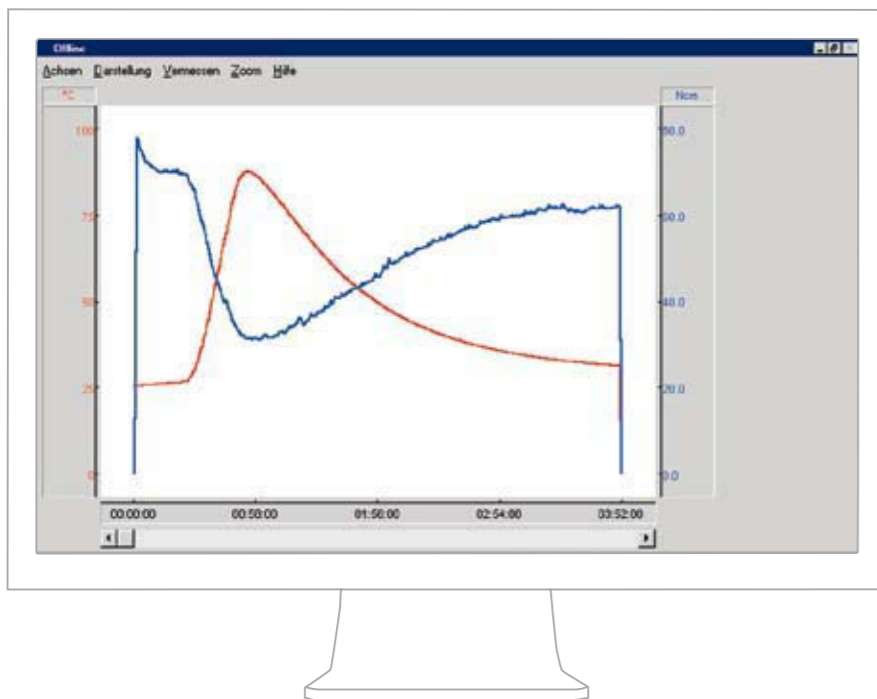


Figure 2: y/t-graphic: Shows torque and temperature changes in medium.

Presentation of results

The measuring results are directly displayed online or offline graphically with a selectable coordination system or numerically. Several numerical displays as well as four-channel displays are possible.

Storing a measuring configuration

The complete measuring configuration with all current parameters and the position of all opened windows can be stored. As a result, preconfigured flowcharts which are immediately ready for operation can be provided for the widest variety of tasks.

Fig. 1: Configuration example of a laboratory reactor with peripherals in operation. The speed of an overhead stirrer, the target temperature of a thermostat and a pump are controlled. Torque and temperature of the medium are recorded and are represented in a y/t-graphic (fig. 2). By means of a IO 2 DATACONTROL, additional external sensors or valves are possible.

Configuration example – Recording rheological data during the stirring process

labworldsoft®

Laboratory software for control and data collection, page 153

Ident. No. 2970000

EUROSTAR power control-visc

Stirrer, page 41

Ident. No. 2600000

R 270

Boss head clamp, page 126

Ident. No. 2657800

VK 600 control VISCOKLICK®

Torque measurement instrument, page 149

Ident. No. 8015700

PC 1.5

Cable, page 158

Ident. No. 2756000

R 1373

Paddle stirrer, page 46

Ident. No. 0757600

RH 5

Strap clamp for securing the vessel, incl. boss head clamp R 270, page 126

Ident. No. 3159000

R 2723

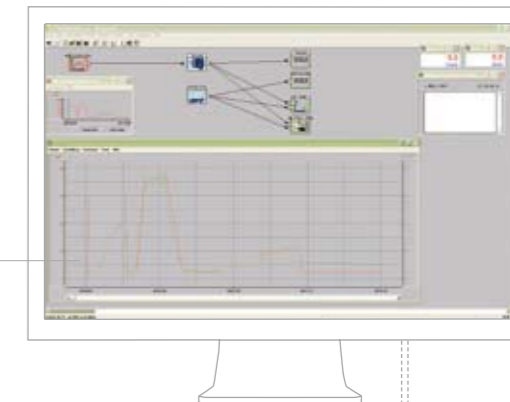
Telescopic stand, page 125

Ident. No. 1412100

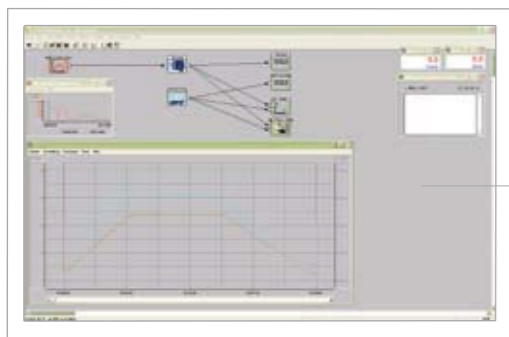
PCI 8.2 Einsteckkarte

for mounting in the PC to control up to 8 instruments, page 157

Ident. No. 8017500



Configuration example – Controlling and recording temperature data during magnetic stirring with heating



labworldsoft®
Laboratory software for control and data collection,
page 153
Ident. No. 2970000

H 38
Holding rod for casing of the PT 100.50 sensor, **page 33**
Ident. No. 3547700

H 44
Boss head clamp, **page 126**
Ident. No. 2437700

PT 100.50
Temperature sensor for RET control-visc, **page 29**
Ident. No. 2601900

H 16 V
Support rod for attachment to
RET control-visc, **page 33**
Ident. No. 1545100

PCI 8.2
Plug-in card for mounting in the PC to control
up to 8 instruments, **page 157**
Ident. No. 8017500

PC 1.5
Cable, **page 158**
Ident. No. 2756000

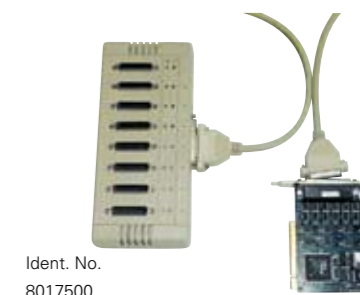
H 99
Protective cover included with the RET control-visc,
page 34
Ident. No. 2734500

RET control-visc safety control
Safety magnetic stirrer with RS 232 interface, **page 15**,
incl. protective cover H 99, **page 34**
Ident. No. 3364000



PCI 8.2 Plug-in card

For mounting in the PC to connect up to 8 instruments simultaneously. Plug-in cards for up to 64 instruments available on request.



Ident. No. 8017500

PC 4.1 RS 232 Server

Up to 4 lab units can be controlled through the ethernet with the PC 4.1 RS 232 server. The server supports 4 RS 232 ports with a 10/100 mbps ethernet interface by TCP/IP. The server can be set-up through the ethernet and works as a transparent serial COM-Port without restrictions of platform and distance.



Ident. No. 3192000

Server for connection of up to 64 instruments available on request.

General data	
Voltage output	0 – 1 / 0 – 5 / 0 – 10 V
Current output	0 – 20 / 4 – 20 mA

DC 2 DATACONTROL

For PC documentation of analog signals from up to 4 instruments.



Ident. No. 8015600 230 V 50/60 Hz
8015601 115 V 50/60 Hz

Accessories (page):
PC 1.5 Cable (158), PC 2.2 Adapter (158),
AK 2.4 Analog cable (158)

General data	
Voltage output	0 – 1 / 0 – 5 / 0 – 10 V
Current output	0 – 20 / 4 – 20 mA

DA 2 DATACONTROL

To convert digital signals into analog signals. In this manner, devices with analog control inputs (industrial controllers, temperature controllers) can be controlled using labworldsoft®. Connection box included.



Ident. No. 8017200 230 V 50/60 Hz
8017201 115 V 50/60 Hz

Accessories (page):
PC 1.5 Cable (158), PC 2.2 Adapter (158),
Analog cable (158): AK 2.6, AK 2.7

IKA® Software

labworldsoft® accessories

IKA® Software

Overview connection possibilities



IO 2 DATACONTROL

With the IO 2 DATACONTROL, the power switch IO 2.1 DATACONTROL and labworldsoft® any device without any interface (heaters, solenoid valves, etc.) can be turned on and off based on an event (a threshold value being exceeded, controller output, etc). This opens up numerous control possibilities in connection with the PID, relay and trigger modules of labworldsoft®. In addition, using the 8 inputs on the IO 2 DATACONTROL, signals from switches etc. can be recorded by labworldsoft®.

Ident. No.	
3006000	230 V 50/60 Hz
3006001	115 V 50/60 Hz

Accessories (page):
 IO 2.1 Power switch (158), PC 1.5 Cable (158), PC 2.2 Adapter (158)



IO 2.1 DATACONTROL Power switch

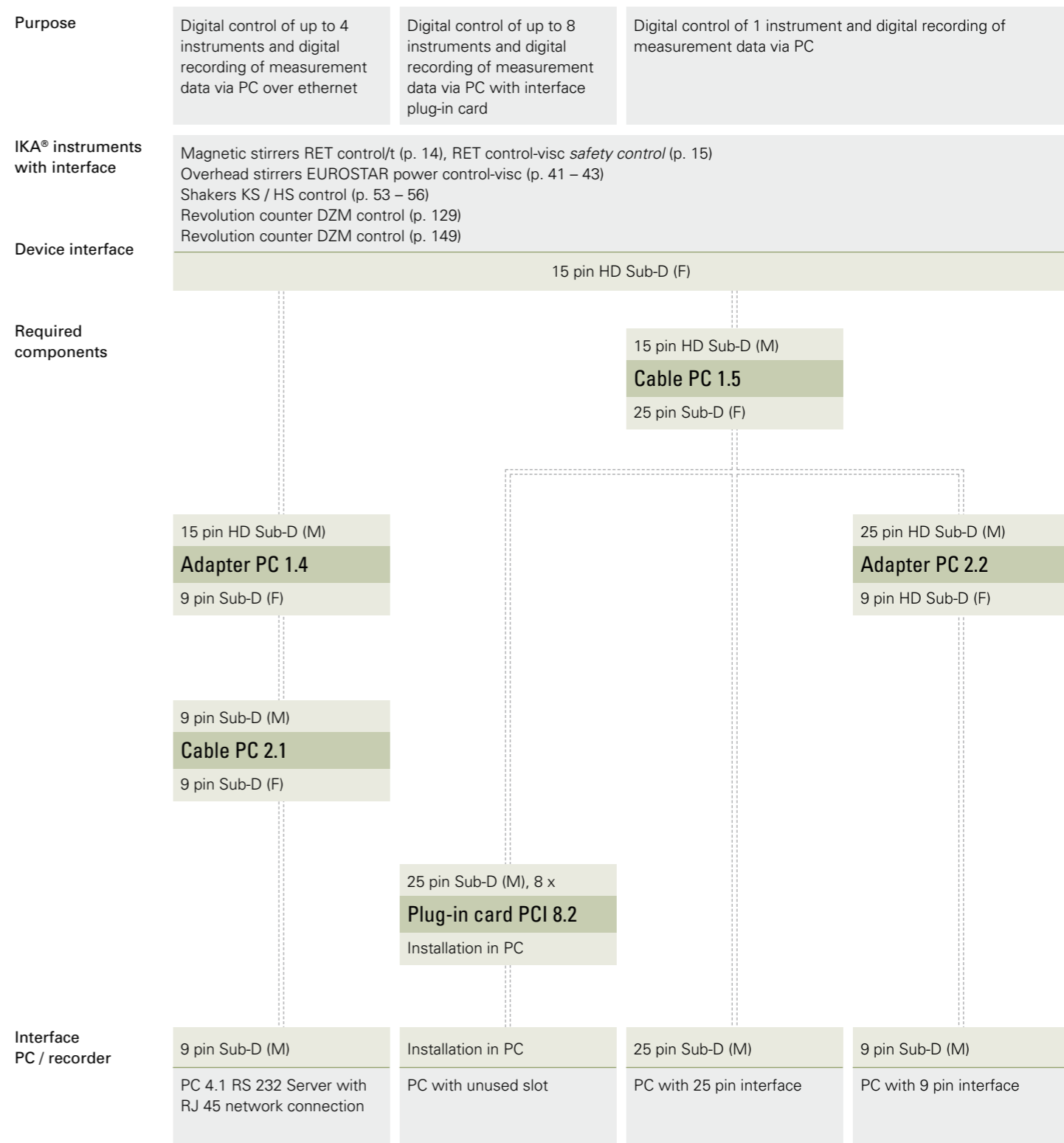
Ident. No.	
3062000	230 V 50/60 Hz
3062001	115 V 50/60 Hz

Cable and Adapter (without fig.)

Technical data	
8 digital outputs (relay contact)	30 V / 1 A
8 digital inputs (Voltage)	0 – 24 V

Technical data	
Max. power of the connected devices	1,2 kW
Cable length	0,6 m
EURO connector (other connectors available on request)	

Cable	Length	Ident. No.
PC 1.1	3 m	2616700
PC 1.5	2,5 m	2756000
PC 2.1	5 m	2700700
PC 2.3	3 m	3036200
DTM 12.10	2,5 m	3127800
Adapter		
PC 1.2		2616800
PC 1.4		2755900
PC 2.2		2753200
PC 5.1		2621500
Analog cable		
AK 2.1	2,5 m	2734300
AK 2.2	2 m	2756100
AK 2.3	2 m	2801200
AK 2.4	2 m	2801300
AK 2.5	2 m	2845800
AK 2.6 (blue)	1,5 m	1719400
AK 2.7 (red)	1,5 m	1719300
AK 2.8	1,8 m	2907800



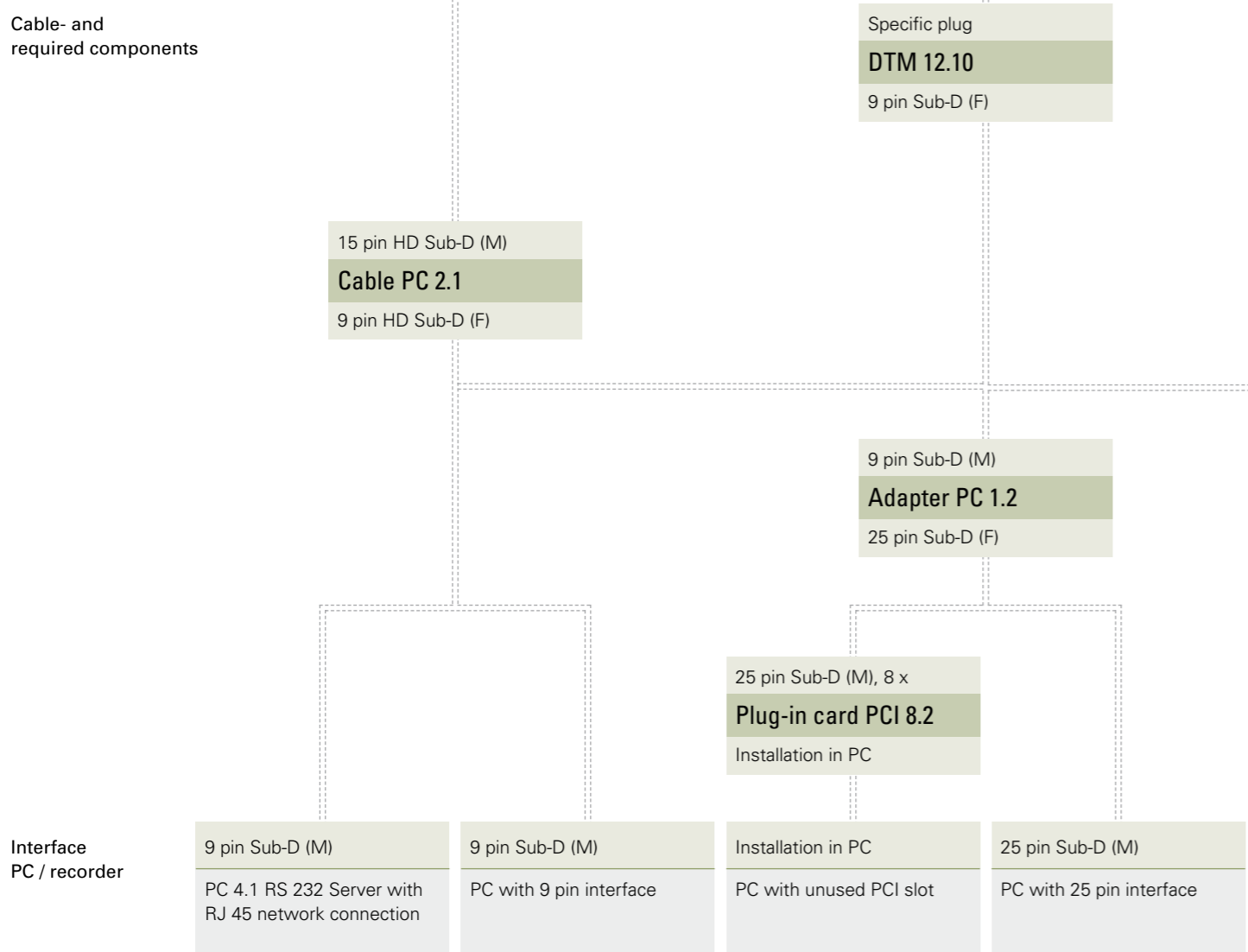
IKA® Software

Overview connection possibilities

IKA® Software

Overview connection possibilities

Purpose	Digital control and digital recording of measurement data	
IKA® instruments with interface	Circulation thermostat CC3-308B vpc (p. 99)	Digital temperature DTM 12 (p. 128)
Device interface	15 pin HD Sub-D (F)	Instrument specific connection



Purpose	Digital control and simultaneous digital and analog display of measurement data	Analog output of measuring data to recorder
IKA® instruments with interface	Magnetic stirrers RET control/t (p. 14), RET control-visc <i>safety control</i> (p. 15) Overhead stirrers EUROSTAR power control-visc (p. 41 – 43) Shakers KS / HS control (p. 53 – 56) Revolution counter DZM control(p. 129) Torque measuring instrument VK 600 VISCOCLICK (p. 149)	
Device interface	15 pin HD Sub-D (F)	

