Precision Material Moisture Meas. Device

for wood, building material, straw, hay, paper, textiles etc.





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probe

perature

Lem

Prot

matching DIN EN 13183-2:2002 temperature external: thermocouple, NiCr-Ni (type K) temperature internal: NTC

moisture: 0,0 to 100,0 % moisture content (depending on characteristic curve)

temperature: -40,0...+200,0°C (-40,0...+392,0°F) Estimation: in 9 steps (dry ... wet)

Accuracy device: (at nominal temperature)

(deviation from characteristic curve at range 6...30%) building mat .: ±0,2 % moisture content

(deviation from characteristic curve) temperature (external): ±0,5% v. MW ±0,3°C

Sensor connection:

moisture: BNC temperature: flat pin plug (free of thermo-voltage)

Perm. working temperature: -25 to 50 °C Display: two 4 digit LCDs (12.4mm or 7mm high),

as well as additional arrows.

Pushbuttons: 6 membrane keys

Output: 3-pin jack connector Ø3.5mm, choice between serial interface or analog output - serial interface: direct connection to RS232

or USB interface of a PC via electrically isolated interface adapter GRS3100 or GRS3105 resp. USB3100 (p.r.t. accessories).

- analog output: 0...1V, freely adjustable Power supply: 9V-battery, additional d.c. connector for external 10.5-12V direct voltage supply (suitable power supply: GNG10/3000).

- appr. for glued timbe glued timber construct 466 wood characteristic curves
- 28 building material characteristic curves
- moisture estimation
- · display of moisture content u or wet-basis moisture content w
- external temperature probes connectable
- serial interface or
- analog output 0-1V, freely adjustable
- Future-proof via updates

Description: the GMH3830 offers important advar tages in handling, user-friendliness, functional rang and accuracy for your metrological work.

The absolute moisture content of 494 materials is dis played directly. The cumbersome usage of calculatio tables now is history. Additionally you get a evaluatio of your material state (wet/dry) of nearly all materia instantly. Of course the formerly used wood groups / B, C and D of the predecessor models are further mor supported.

GMH 3830 access. not included Resistive material-moisture and temperature measuring device

General application: precision measurements Power consumption: approx. 2.5 mA in cut wood, chip board, veneer, sawdust, wood Dimensions / Weight: 142 x 71 x 26 mm, 155 chips, wood wool, flax, straw, hay, concrete, gas Housing: Impact-resistant ABS plastic housing concrete, bricks, wash floor, cast, limestone mormembrane keyboard, transparent panel. Front tar, cement mortar, paper, carton, textiles etc. side IP65, integrated pop-up clip

CE

User: architect, expert, inspector, building contractor, painter, carpenter, parquet joiner, floor tiler, wood works, timber desiccation plant, building repair company, textile industry etc.

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GMH 3830

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Specification GMH 3830:

Measuring principle:

moisture: resistive material-moisture-measuring

Characteristic curves: 494

Measuring range:

Resolution: 0,1% resp. 0,1°C (0,1°F)

wood: ±0,2 % moisture content

Temperature compensation:

automatically or manual



USB 3100 N interface converter GNG 10/3000 power supply

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and e for retorid of impact cription: the GMH3830 offers important advanses in handling, user-friend lineses, functional range accuracy for your metrological work. GSG 91 absolute moisture content of 444 materials is discussed directly. The cumbersome usage of calculation part and state (wet/dy) of nearly all materials as the formerity user get a evaluation of the predecessor models are further more orded. GST 91 ure measuring device GKS 91 Power consumption: approx. 2.5 mA GBKS 81 Dimensions / Weight: 142X 71 x 26 mA GBK 81 Hoti, Auto-Hold (automatic freezing of a constant value). Low battery warning (\L] and 'b b1'. ys ord (limitation of the choice of materials to up the fass actuacy to regular warding (\L] or gets and the predecessor of surface measurements and deptinization in page, testile act. GMH 3830 LW: Complete material moisture measuring in the set consists of GMH 3830 uWir preset materiation (Sort) and a use set. GMH 3830 LW: Set as the secellently suitable for measuring in thy bates and bulk goods. Putting the probe into the choice of materials to up the medium material moisture measuring in the set as excellently suitable for measuring in the medium. Material moisture and temperature probe. Set 513 (Bm) implet and the set as the consection cable for the set as excellently. It is the measuring in the medium. Material moisture measuring in the medium. Material moisture measuring in the medium set as the consectin cable for the set as excellently. It inthe	xternal temperature probes connectable erial interface or	3	
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absolute moisture content of 494 materials is dis- edirectly. The cumbersome usage of calculation as now is history. Additionally you get a evaluation are measuring devices GST 91 steel nails (3 pieces each 12, 16 and 2 or mit leng) in plastic cases (GNK 3100) in plastic cases (GNK 310) of the predecessor models are further more orded. are measuring device GOK 81 surfaces-measuring cases (pair) (bit seased of GGS1 of GS31) (Box 3100, PM composition (BSK 30) (BSK 300, PM composition), word they, word outpage, carbon, etc. (bit seased of GGS1 of GS31) (BSK 300, PM composition), word they, word outpage, carbon, etc. (bit seased of GGS1 of GS31) (BSK 300, PM composition), etc. (bit seased of GGS1 of GS31) (BSK 300, PM composition), etc. (bit seased of GGS1 of GS31) (BSK 300, PM composition), etc. (bit seased of GGS1 of GS31) (BSK 300, PM composition), etc. (bit seased of GGS1 of GS31) (BSK 300, PM composition), etc. (bit seased of GGS1 of GS31) (BSK 300, PM composition), etc. (bit seased of GGS1 of GS31) (BSK 300, PM composition), etc. (bit seased of GGS1 of GS31) (BSK 300, PM composition), etc. (bit seased of GGS1 of GS31) (BSK 300, PM composition), etc. (bit seased of GGS1 of GS31) (BSK 300, CM composition), etc. (bit seased of GGS1 of GS31) (BSK 300, CM composition), etc. (bit seased of GGS1 of GS31) (BSK 300, CM composition), etc. (bit seased of GGS1 of GS31) (BSK 300, CM composition), etc. (bit seased of GGS1 of GGS1) (BSK 300, CM composition), etc. (bit seased of GGS1 of GGS1) (BSK 300, CM composition), etc. (bit seased of GGS1 of GS31) (BSK 300, CM composition), etc. (bit seased of GGS1 of GGS1 of GS31) (BSK 300, CM composition), etc. (bit seased of GGS 00, CM composition), etc. (bit seased of GGS1 of G	cription: the GMH3830 offers important advan- s in handling, user-friendliness, functional range accuracy for your metrological work.	6 	retrofitted impact electrode with front
Infly. Of course the formerly used wood groups A, and D of the predecessor models are further more orded. GOK 91 suffaces-measuring caps (pair) tobe arowad in GSG19 (GSG19). are measuring device GOK 300/91 measuring pins 300 mm long (pair) forwood dnips, page, catho, etc. (be served on GSG19 (GSG19). Power consumption: approx. 2.5 mA Dimensions / Weight: 142 x 71 x 26 mm, 155 g Housing: Impact-resistant ABS plastic housing, membrane keyboard, transparent panel. Front side IP65, integrated pop-up clip GMS 300/91 measuring pins 300 mm long (pair) for dimensions / Weight: 142 x 71 x 26 mm, 155 g Housing: Impact-resistant ABS plastic housing, membrane keyboard, transparent panel. Front sort (imitation of the choice of materials to up to 8 favourites). Auto Power Off GMH 3830 LWI: Complete material moisture measuring set optimized for use in agriculture The set is excellently suitable for measuring in hay bales and bulk goods. Putting the probe (into the medium, material moisture and temperature could be specified quick and easy. <u>Scope of Suppi:</u> x KMH 3830 (measuring device incl. battery), 1x GSF 38TF (injection probe), 18 MC connection cable 1.5m, 1x NCr-Ni connection cable 1.5m, 1x KK3500 (case), GMK 38 (measuring cable, GSE 91 (impact electrode), GST 91 (SF 38 TFK (C35 cm) insulated NUCr-Ni integrated NCr-Ni- teger and adapter (with 2 test points) GTHEMIS: GKK3500 (case), GMK 38 (measuring cable, GSE 91 (impact electrode), GST 91 (SF 38 TFK (100 Cast 18 MF (V)-CNI integrated MCr-Ni- teger and adapter (with 2 test points) GSF 38 TFK (C35 cm) insulated NUCr-Ni integrated MCr-Ni- teger and adapter (with 2 test points) GSF 38 TFK (100 Cast 18 MF (V)-CNI integrated moisture set) Contentits: GKK3500 (case), GMK 3	absolute moisture content of 494 materials is dis- ed directly. The cumbersome usage of calculation as now is history. Additionally you get a evaluation our material state (wet/dry) of nearly all materials antly. Of course the formerly used wood groups A, and D of the predecessor models are further more	6	GST 91 steel nails (3 pieces each 12, 16
Are measuring device GMS 300/91 Power consumption: approx. 2.5 mA Dimensions / Weight: 142 x 71 x 26 mm, 155 g Plousing: Impact-resistant ABS plastic housing, membrane keyboard, transparent panel. Front side 1965, integrated pop-up clip GBS 41 Functions: GBS 310 Hold, Auto-Hold (automatic freezing of a constant value), Low battery warming (\triangle and 'b At'). GBS 91 Sort (limitation of the choice of materials to up to 8 favourites). Auto Power Off GSP 91 GMH 3830 LW: Complete material moisture measuring in a and 'b At'). Sort (limitation of the choice of materials to up to 8 favourites). Auto Power Off GSP 91 GMH 3830 LW: Sensor for surface measurements on paper, textiles etc. Sort (limitation of the choice of materials to up to 8 favourites). Auto Power Off GSP 91 Sato with preset material electron (SCI) and a rugged insertion probe (ind) assort. Sensor for surface measurements on paper, textiles etc. Sort (limitation or probe, 15M bit Sci (Complete material moisture and temperature ould be approx. 200 mm GSF 33 (1 m) Sensor for surface measuring in a yables and bulk goods. Putting the probe into the medus ming device incl. battery), 1x GSF SSF 33FTK (35 cm) Mid All Asson (measuring the choice of materials instrue and temperature oucle (for tor parement, etc.) SSF 33FTK (1 m) SET 38 BF (Wood moisture set)		7 .	
Dimensions / Weight: 142 x 71 x 26 mm, 155 g Show in 2 approx. 100 mm Housing: Impact-resistant ABS plastic housing, membrane keyboard, transparent panel. Front side IP65, integrated pop-up clip GBSL 91 Functions: GBSL 91 Houd, Auto-Hold (automatic freezing of a constant value), Low battery warning (A and 'bAt'), Sort (limitation of the choice of materials to up to a favourites), Auto Power Off GLP 91 GMH 3830 LW: GSP 91 Complete material moisture measuring and leader of constant value), Low battery warning (A and 'bAt'), Sort (limitation of the choice of materials to up to a favourites), Auto Power Off GSP 91 GMH 3830 LW: Salo with preset material selecton (soft) and a rugged insertion probe (kB) and ugged insertion and the probe into the medium, material moisture and temperature could be specified ugick and easy. Score of Supply: 1x NiCr-Ni connection cable 1.5m, 1x GKK 3500 (case), GKK 350	ure measuring device	8	measuring pins 300 mm long (pair) for wood chips, wood wool, paper, carton,
membrane keyboard, transparent panel. Front side IP65, integrated pop-up clip GBSL 91 Functions: Image: Strate integrated pop-up clip Hold, Auto-Hold (automatic freezing of a constant value), Low battery warning (△ and ' bAt '), Sort (limitation of the choice of materials to up to 8 favourites), Auto Power Off GLP 91 GMH 3830 LW: Image: Strate integrated pop-up clip GSP 91 ES spare sensor element for GSP 91 Image: Sort (limitation of the choice of materials to up to 8 favourites), Auto Power Off GSP 91 ES spare sensor element for GSP 91 Image: Sort (limitation of the choice of materials to a paper, textiles etc. Image: Sort (Simitation of the choice of materials on paper, textiles etc. Image: Sort (Simitation of the choice of materials to poper, textiles etc. Image: Sort (Simitation of the choice of materials on paper, textiles etc. Image: Sort (Simitation of the choice of material moisture measuring in hay bales and bulk goods. Putting the probe into the medium, material moisture and temperature sculd be specified quick and easy. Sort (Simitation cable 1.5m, 1x GKK 3500 (Koffer) Image: Sort (Simitation probe), ASE 91 (impact electrode), Cister laise), GTF3 8 (Impact electrode), Cister laise and wood wood, wood dow dow, wood choice, and electrode (Image: Sort 1) (Impact electrode), Cister laise and wood wood, wood dow dow, wood electrode), Cister laise and wood wood, wood dow ood wood wood wood	Dimensions / Weight: 142 x 71 x 26 mm, 155 g	9 =====	short brush-type probe (pair) for
Hold, Auto-Hold (automatic freezing of a constant value). Low battery warning (\triangle and ' bAt '), Sort (limitation of the choice of materials to up to 8 favourites). Auto Power Off Image: CLP 91 GMH 3830 LW: Image: Complete material moisture measuring set optimized for use in agriculture Image: Clear of the complete material moisture measuring set optimized for use in agriculture Image: Complete material moisture measuring set optimized for use in agriculture Image: Clear of the complete material moisture and the complete material moisture and the complete material a selection (Soft) and a rugged insertion probe (6), with integrated temperature could be specified quick and easy. Image: Clear of the complete material moisture and temperature could be specified quick and easy. Scope of Supply: Ix GMH 3330 (measuring device incl. battery), 1x GSF 38TF (injection probe), 1x BKC connection cable 1.5m, 1x GKK 3500 (Koffer) itselenals), GTF38 (measuring cable), GSF 38 (MSR (measur	membrane keyboard, transparent panel. Front side IP65, integrated pop-up clip	0=	long brush-type probe (pair) for
8 favourites), Auto Power Off GMH 3830 LW: Complete material moisture measuring set optimized for use in agriculture Sensor if surface measurements of GSP 91 Sensor if surface measurements of GSP 91 Sensor if surface measurements of GSP 91 Salo with preset material solution (Sort) and a rugged insertion probe (ifs with integrated temperature sensor. Sensor. The set is excellently suitable for measuring in hay bales and bulk goods. Putting the probe into the medium, material moisture and temperature could be specified quick and easy. Ser 38 (1 m) Scope of Supply: 1x GMH 3830 (measuring device incl. battery), 1x GSF 38TFK (135 cm) Sigs 38TF (1 m) 1x NiCr-Ni connection cable 1.5m, 1x GKK 3500 (Koffer) Ser 38 HF (Wood moisture set) Sigs 38TF (1 m) Set 38 BF (Wood a bulking material moisture set) Sortents: GAKA3500 (case), GMK 38 (measuring cable), GSF 91 (meas detrohe), GTF 91 (cables of wood wood, wood drips, hay bales, bulk goods, etc.) Set 38 BF (Wood a bulking material moisture set) Sortents: GAKA3500 (case), GMK 38 (measuring cable), GSF 91 (meas detrohe), GTF 91 (cables of wood wood wood wood wood wood wood w	Hold, Auto-Hold (automatic freezing of a constant value), Low battery warning (A and ' bAt '),	0	conducting paste 100 ml, for surface measurements and depth indication in
Complete material moisture measuring set optimized for use in agricultureSpare sensor element for GSP 91 ES spare sensor element for GSP 91Spare sensor element for GSP 91<	8 favourites), Auto Power Off	0	sensor for surface measurements
set optimized for use in agriculture Image: Set optimized for use in agriculture	Complete material moisture measuring	13	
contents: GKK3500 (case), GMK 38 (measuring cable), GSE 91 (impact electrode), GST 91 (steel nails), GTF38 (temperature probe)flat electrode (for floor pavement, etc.)SET 38 BF (Wood a. building material moisture set) contents: GKK3500 (case), GMK 38 (measuring cable), GSE 91 (impact electrode), GST 91 (steel nails), GTF38 (temperature probe), GMS300/91 (measuring pins), GBSK91 (brush- type probe), GLP 91 (conducting paste)GFF 38 insulated NiCr-Ni temperature probe, GMS300/91 (measuring pins), GBSK91 (brush- type probe), GLP 91 (conducting paste)SET 38 MPA (MPA wood moisture set) contents: as SET38HF but instead of GSE 91 with GHE 91 USB 3100 N interface converter GNG 10/3000 power supplyGSK 320 (case (394 x 294 x 106 mm) with punched lining for device an access ST-RN protection pocket with openings for sensor connections	The set consists of GMH 3830 with preset mate- rial selection (Sort) and a rugged insertion probe (5) with integrated temperature sensor. The set is excellently suitable for measuring in hay bales and bulk goods. Putting the probe into the medium, material moisture and temperature could be specified quick and easy. Scope of Supply: 1x GMH 3830 (measuring device incl. battery), 1x GSF 38TF (injection probe), 1x BNC connection cable 1.5m, 1x NiCr-Ni connection cable 1.5m, 1x GKK 3500 (Koffer)	GSF 38 (1 m) GSF 38K (25 cm) injection probe (diff. meas. depths) with handle and 1.5 m connection cable (for bales of wood wool, wood chips etc.) GSF 38TFK (1 m) GSF 38TFK (35 cm) injection probe (diff. meas. depths) with integrated NiCr-Ni- temperature probe, with handle and connection cables	
 cable), GSE 91 (impact electrode), GST 91 (steel nails), GTF38 (temperature probe) SET 38 BF (Wood a. building material moisture set) <u>contents:</u> GKK3500 (case), GMK 38 (measuring cable), GSE 91 (impact electrode), GST 91 (steel nails), GTF38 (temperature probe), GMS300/91 (measuring pins), GBSK91 (brush- type probe), GLP 91 (conducting paste) SET 38 MPA (MPA wood moisture set) <u>contents:</u> as SET38HF but instead of GSE 91 with GHE 91 USB 3100 N interface converter GNG 10/3000 power supply microellappeque accessories parts p. 56, 59 	contents:	16	flat electrode (for floor pavement, etc.)
SET 38 BF (Wood a. building material moisture set) insulated NiCr-Ni temperature probe, 02.2x25mm (necessary for temperature probe, 02.2x25mm (necessary for temperature differences between wood an device) SET 38 MPA (MPA wood moisture set) GST 91 (steel nails), GTF38 (temperature probe), GMS300/91 (measuring paste) SET 38 MPA (MPA wood moisture set) GES 38 contents: as SET38HF but instead of GSE 91 with GHE 91 Image: Green of the set of the	cable), GSE 91 (impact electrode), GST 91		testing adapter (with 2 test points)
GMS300/91 (measuring pins), GBSK91 (brush- type probe), GLP 91 (conducting paste) SET 38 MPA (MPA wood moisture set) contents: as SET38HF but instead of GSE 91 with GHE 91 USB 3100 N interface converter GNG 10 / 3000 power supply miscellanceure accessories picts 56, 58	contents: GKK3500 (case), GMK 38 (measuring cable), GSE 91 (impact electrode),	•	insulated NiCr-Ni temperature probe, Ø2.2x25mm (necessary for temperature differ-ences between wood an device)
contents: as SET38HF but instead of GSE 91 with GHE 91 Image: Contents: as SET38HF but instead of GSE 91 with GHE 91 USB 3100 N interface converter Image: Contents: Conten	GMS300/91 (measuring pins), GBSK91 (brush- type probe), GLP 91 (conducting paste)	00	insulated NiCr-Ni injection probe
GNG 10/3000 power supply miscellaneous accessories pitts 56 58 ST-RN protection pocket with openings for sensor connections	contents: as SET38HF but instead of GSE 91 with GHE 91	۵ 🔳	
mst-kin (suitable for GMH 3830, GMH 3850)	GNG 10/3000 power supply	pict.: GMH3830	protection pocket with openings for sensor connections
	moocilaneous accessories p.i.t.p. 30 - 30	III S I-RIN	(suitable for GMH 3830, GMH 3850)





Scope of Supply:

Accessories: