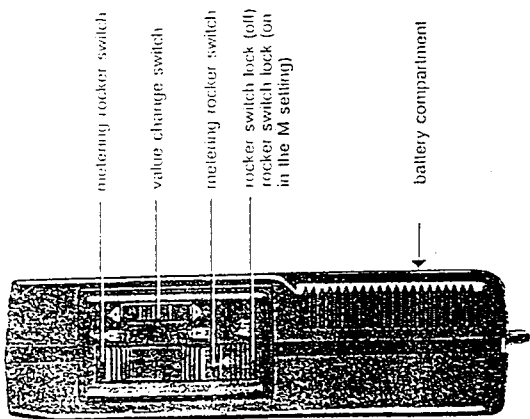


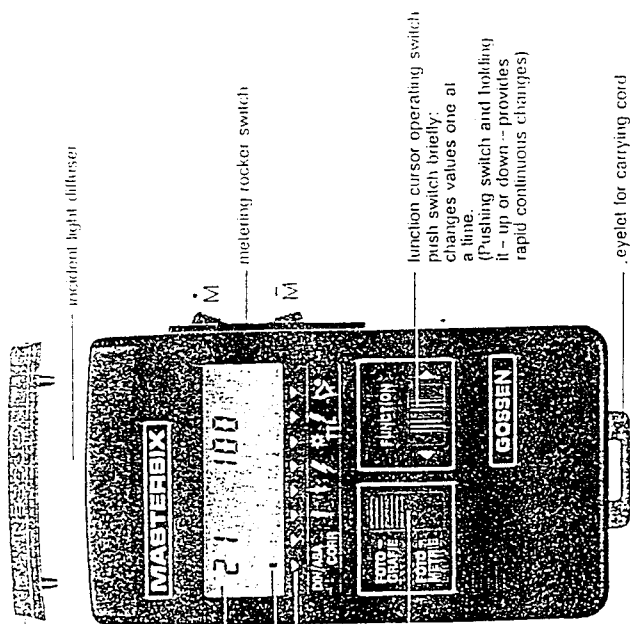
Co-ax socket for flash lead
button for firing flash from the meter



metering rocker switch
value change switch
metering rocker switch
rocker switch lock (off)
rocker switch lock (on in the M setting)
battery compartment

The MASTERBIX automatically switches off within 2 minutes therefore there is no "off switch".

The MASTERBIX is switched off, when after display of the actual measured value DIN/ASA display appears again. This display does not reduce battery life.



protective cover for accessory outlets
incident light diffuser
readout display (LCD)
function cursor (or readout of contrast in half stops)
functions
mode selector switch
metering rocker switch
function cursor operating switch push switch briefly, changes values one at a time. (Pushing switch and holding it - up or down - provides rapid continuous changes)
eyelief for carrying cord

Please unfold for List of Contents Part 1 "Basic Meter"

Part 2 "Attachments" is an integral part of these operating instructions. For convenience, this has been printed as a separate booklet.

List of Contents Part 2 "Attachments"

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- PROFI-spot Page 58
- PROFI-color Page 62
- REPRO Page 74
- PROFI-flex Page 77
- PROFI-lux Page 82
- PROFI-select TTL Page 86
- PROFI-micro Page 94
- LAB Page 98

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- The meter and its functions 5
- Battery 5
- Automatic check of circuits 5
- Measuring methods: incident light and reflected light 6
- Measuring range extension stops by 1.5 8
- Reminder symbol -- correction factors 8
- Warning symbols for limits of measuring range 9
- Pulsing of the display 10
- Acoustic signal (bell) 10
- Storing readings in meter memory 10
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- Photographic functions -- "FOTOGRAFIE" mode 12
- Setting film speeds (DIN/ASA) 12
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- Measuring with preselected aperture or shutter speed (f or t) 15
- Measuring contrast ranges 18
- Evenness of illumination 19
- Averaging readings automatically 19
- Flash measurement 20
- Multiple flash computation 24
- TTL setting 25
- Timer setting 25

Photometric functions -- "FOTOMETRIE" mode

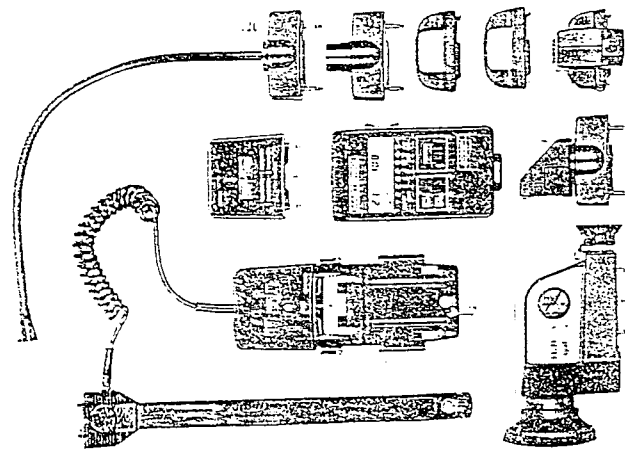
- Density Measurement 27
- "COLOR" setting 28
- Lx, fc, cd/m² settings 28
- Lxs, fcs settings 29
- Obtaining exposure values (LW/EV) 30
- Technical specifications 31
- Spectral sensitivity 31
- The MASTERBIX-system 31
- Reflected light measurement 32
- Incident light measurement 34
- Narrow angles of measurement 34
- Zone system 35
- Circles of measurement 36

Useful Hints -- Photometric values

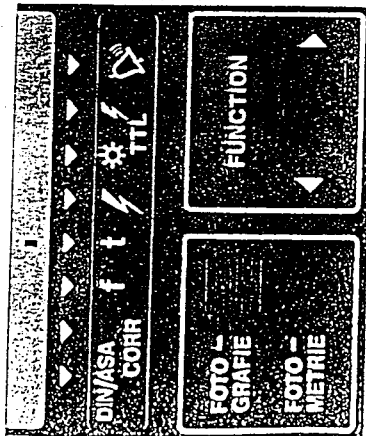
- Cine speeds 38
- Shutter priority 38
- Aperture priority 38
- Averaging readings 38
- Preprogrammable exposure corrections 39
- Contrast and optimal exposure 40
- Light metering enhances creativity 42
- Night pictures 43
- Reciprocity failure 43
- Snow 43

Explanation of measured quantities

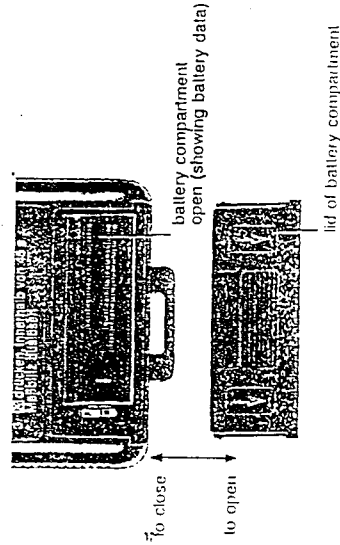
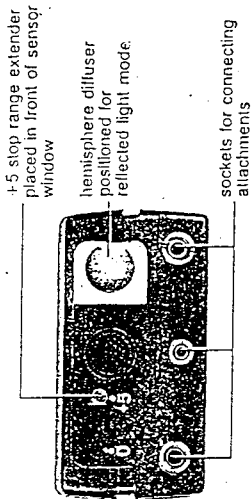
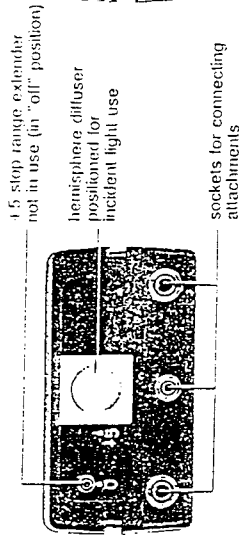
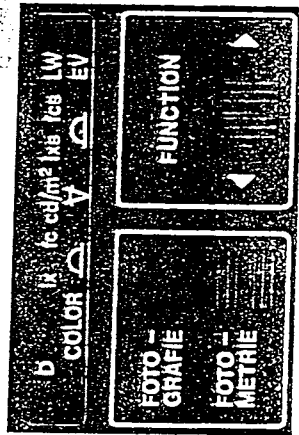
- Density 44
- Colour temperature 44
- Light intensity 45
- Luminance 45
- Quantity of light 45



meter set to photographic mode and chosen shutter speed



meter set to photometric mode and functions D (density) and LW/EV

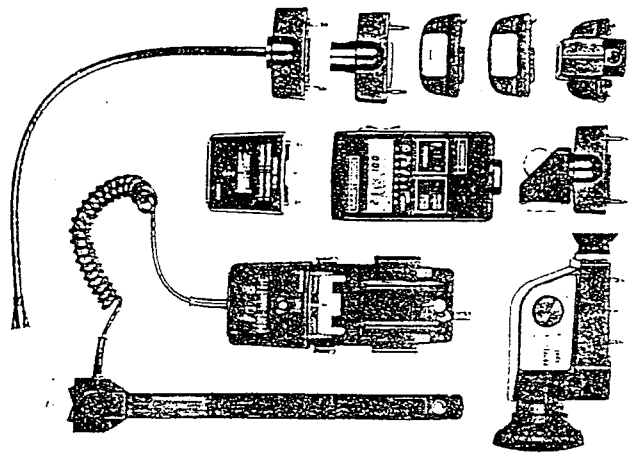


Please unfold for List of Contents Part 1 "Basic Meter"

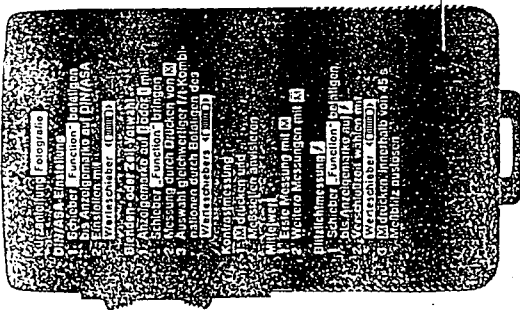
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Hear with instructions



Basic operation instructions on the back of the meter.

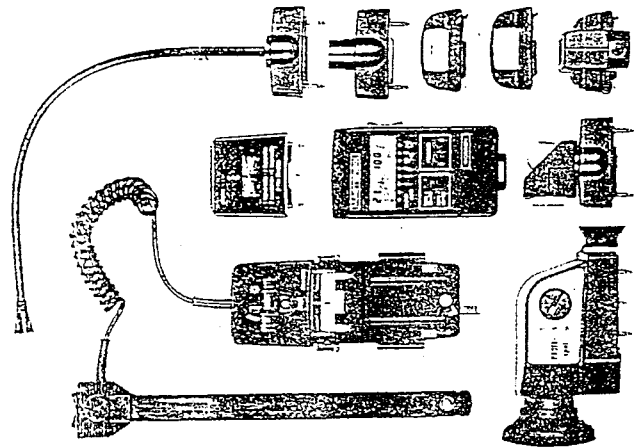
For even greater convenience abbreviated operating instructions and a Zone Scale on stick-on labels are included (page 24/25).

Pull off covering foil and stick to your MASTERSEX meter

battery compartment

The MASTERSEX system comprises the basic exposure meter and nine optional attachments.

- TELE reduces the measuring angle to 15° or 7.5° for selective measurements, spot metering, at 10°, 5° or 1°.
- PROFI-color for measuring colour temperature and indication of correction filters.
- REPRO provides exposure information for copying.
- PROFI-flex especially suitable for macrophotography, for ground glass measurements of cameras and hard-to-reach areas.
- PROFI-lux facilitates professional incident light readings for measuring at the film plane of view cameras.
- PROFI-micro assures convenient and precise measurement in micrography.
- LAB determines exposure data in darkroom printing and enlarging.



The MASTERSEX is a universal light measuring instrument made by GOSSEN which will measure and also calculate for you. The MASTERSEX reads photographic and photometric values, it calculates, stores in a memory and recalls values from there. Therefore it enhances the creative capabilities of each photographer especially when taking photographs of unusual scenes or under exceptional lighting conditions.

The MASTERSEX combines all advantages of modern microprocessor technology and the know-how GOSSEN has acquired from 50 years of manufacturing light meters. The microprocessor interlinks various light metering processes for supplying useful photographic or photometric measuring information.

There are 9 optional accessories which expand the capabilities of the MASTERSEX still further.

Here is an outline of some of the main features of the MASTERSEX and its attachments:

Full range of photographic and photometric readouts (in two function groups) – microprocessor controlled and monitored.

Reads flash as well as continuous light.

LCD digital readout in tenths of a stop. Analogue indication of tendencies in half stops.

Direct analogue readout of the contrast range ± 4 stops.

Built-in 5 stop range extender, e.g. for very powerful flashes.

Full range of 9 optional attachments available, automatic measured value adaptation. Preprogramming for direct readout.

Programmable exposure corrections. Integrated timer.

Two silicon blue cells, one for continuous light and one for flash.

Automatic averaging of measurements from separate readings (up to 15).

Converts photometric readouts into aperture and shutter speed combinations. Measuring in exposure values (EV).

Provides choice of aperture or shutter priority.

Extra features and information when used as a flash meter.

Reminder for "under" or "over" range.

Automatic battery check.

In-built memory stores measurement values.

Automatic cut-off.

Battery

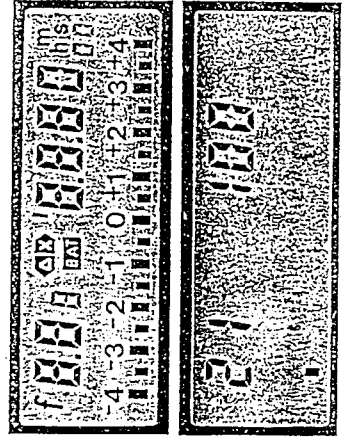
Your MASTERSEX is supplied with a 9 V alkaline battery. A suitable rechargeable 9 V battery may be used. The minimum life duration of such a battery is sufficient for about 2000 measurements. When the warning symbol "BAT" comes on in the display another 50 measurements (approx.) may be made.

Changing the battery is easy: Slide off the battery compartment lid, remove exhausted battery, insert a fresh one into the compartment as indicated. Close the compartment lid.

Automatic circuit check

Immediately after battery insertion the microprocessor carries out a circuit check and all LCD indicators in the meter will go on at once confirming the meter's operational status. After the test this display will be replaced by 21 DIN/100 ASA the meter's preset film speed setting. (For technical data see page 30).

Changing the battery will cancel all values measured or stored in the meter.



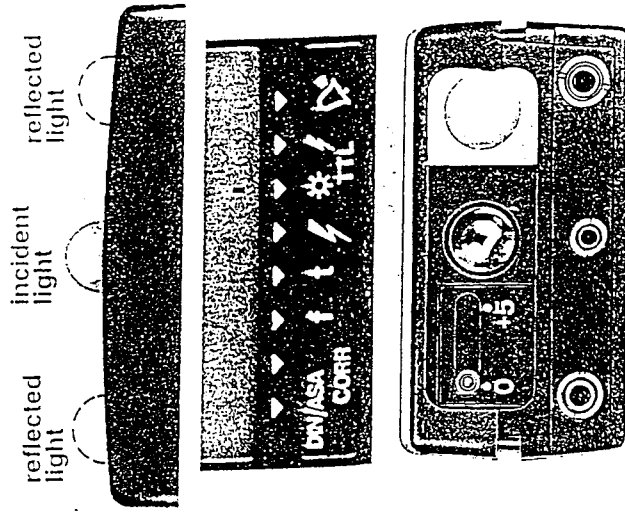
Measuring Methods

Incident light and reflected light:

In the "FOTOGRAFIE" mode (photographic) the meter will measure either incident or reflected light for "f", "t" or "f" functions.

TTL measurements direct in the film plane with continuous light and flash are possible only when the PROFi-select TTL attachment is coupled to the meter. (For more information see instructions part 2 "Attachments").

Position for the diffuser when reflected light readings are being taken (point the meter from the camera position towards the subject).



Extending the sensitivity range by +5 stops

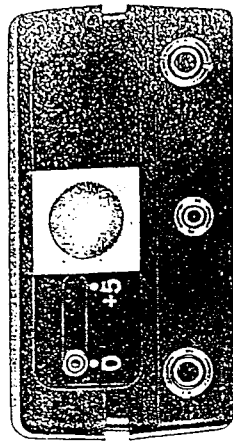
If, when measuring flash, you find that you are outside the meter's range (no flashes), slide the extender to +5 position and take another reading. The factor is automatically programmed into the meter and so the readout will now be correct.

Make certain that you slide the 5 stop extender into the +5 or 0 position completely, dependent upon your needs. Care should be taken that the extender is in the "0" position when not needed.

Reminder symbol — correction factors

In the "FOTOGRAFIE" mode, once an exposure correction factor has been set into the meter, the exposure correction symbol will appear on the display. This will serve as a constant reminder that an exposure correction is in the meter's memory and that the reading has been adjusted for that correction factor. (See page 13).

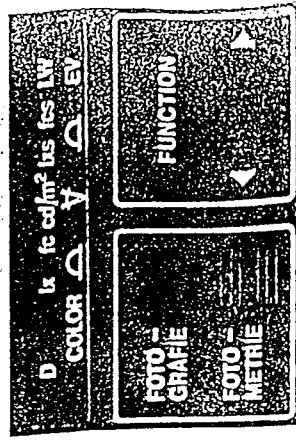
Position of the hemisphere for incident light readings. (Point the meter from the subject towards the camera position).



In the "FOTOMETRIE" mode (photometric) cd/m^2 will require metering without hemisphere diffuser, i. e. in the reflected light mode. The functions lx, fc, lxS and fcs require the diffuser to be placed in front of the cell = incident light mode.

Density measurements (function D) and LW/EV can be made both in the reflected and incident light modes.

For measuring the colour temperature and determining filters (function "COLOR") the PROFi-color attachment must be coupled to the meter. Readings obtained without the COLOR attachment are not valid. (For more information see part 2 of the "Attachments" instructions).



Warnings of the limits of the measuring range

"Over" Range

In the "FOTOGRAFIE" mode the readout signals that the values measured are greater than the meter can read (for technical data see page 30).

Push the value change switch down to bring the settings back to within the performance range of the meter.

"Under" Range

The readout signals that the values are below the indicating range of the meter. So move value change switch upwards.

Pulsing of the display

In the "FOTOGRAFIE" mode this signal warns you that the readout must not be used, because the values are under or over range or that the aperture or shutter speed preselected by you are unsuitable for that subject.

