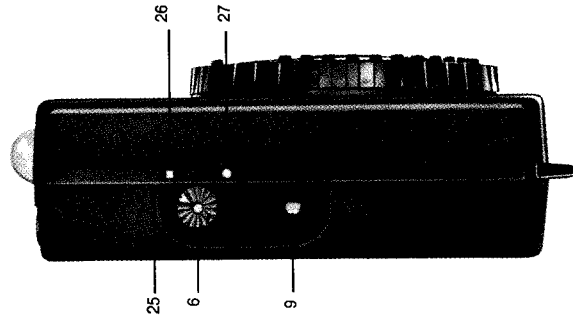
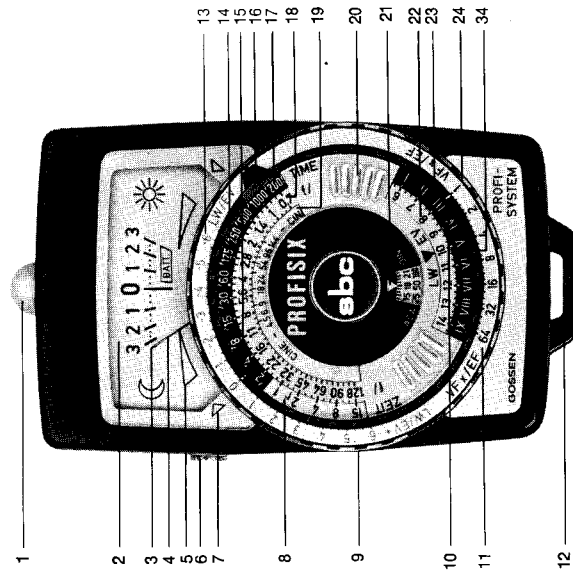


GOSSEN

PROFISIX

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*) used only for measurements with PROFIL-flash attachment (page 35)

The PROFISIX SYSTEM

The **PROFISIX** is a top quality hand-held exposure meter, precise and reliable, with all the advantages of such an instrument.

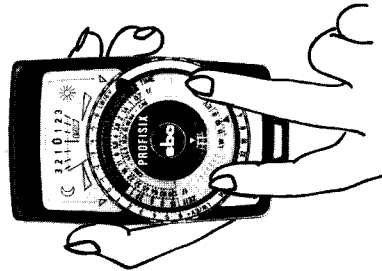
The **PROFISIX** is a System Exposure Meter which, by means of various attachments, becomes a specialized meter for the most diverse applications of photography.

The **PROFISIX** is the heart of the PROFISIX SYSTEM. Through many years of practical experience and the most modern electronic technology the idea of a System Exposure Meter has ripened to a concept that offers greater measuring capabilities with still easier operation.

The **PROFISIX** is a GOSSEN exposure meter for the demanding professional photographer; yet it permits even the advanced amateur to devise his individualized own system by utilizing its modular accessories.

2

Before you start measuring



Set the Film Speed

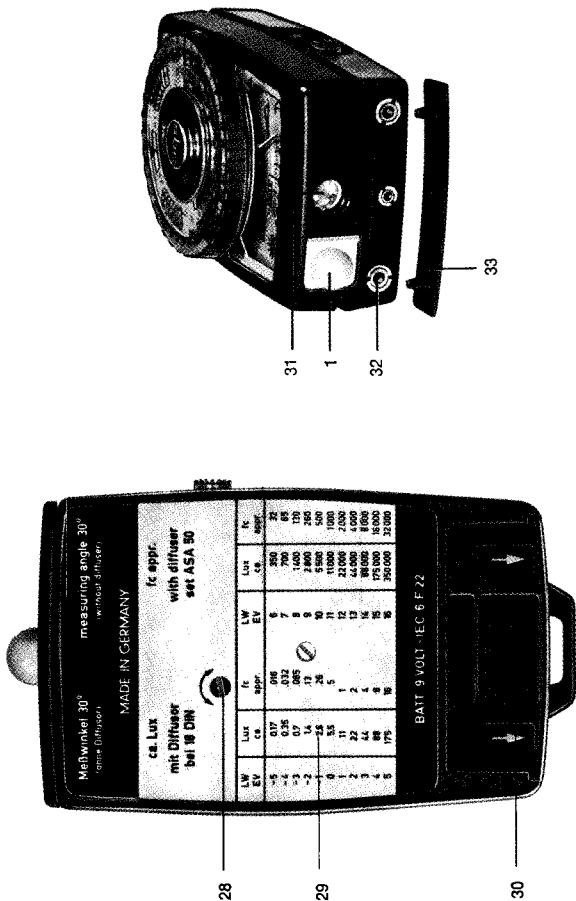
Turn the film speed setting disk (20) by its ribs until the DIN/ASA index number of your film is lined up with the white triangle (21) above the DIN/ASA scale window. You will find a detailed DIN/ASA table on page 20.

Make sure the black cover (16) conceals the red signal; the white index line (15) must be at the red "0", and the opposite white index line (10) at "1" (Standard Setting). You can rotate the inner setting ring (23) by its raised cleats or by the black cover (16) to adjust the setting (see page 9).

Test Zero Position

With the (switched off) meter in horizontal position, the indicator needle (4) should cover the short green line (3) as you look straight down. If necessary, adjust the indicator needle to the zero line by turning the zero adjustment screw (28) on the underside of the PROFISIX. The

4



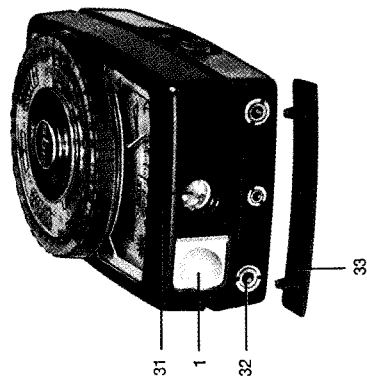
1

The silicon photo diode (silicon blue cell) of the PROFISIX achieves an instant measuring response — even at extremely low light levels. Its superior filtration results in a spectral sensitivity of outstanding character (page 27).

The accessories complement the PROFISIX for readings with smaller measuring angles, for spot-, flash-, and color temperature measurements, for use in the darkroom and in photomicrography, for footcandle measurements as well as densitometric readings. When accessories are attached to the PROFISIX, its electronic circuitry is automatically modified so that you can take scale readings without applying correction factors.

Please acquaint yourself with this fine instrument by reading this instruction booklet; it gives many valuable suggestions to assure you of getting consistently good results.

3



28

29

30

33

Meßwinkel 30°
mit Diffuser

www.gossen.com

MADE IN GERMANY

ca. Lux
mit Diffuser
bei 18 DIN

für appl.
with diffuser
set ASA 50

LUX EV	LUX EV	f ₁ EV	LUX EV	LUX EV	LUX EV	LUX EV	LUX EV
-5	0,17	0,06	6	200	24	1000	1000
-4	0,35	0,12	7	400	26	2000	2000
-3	0,71	0,24	8	800	28	4000	4000
-2	1,42	0,48	9	1600	30	8000	8000
-1	2,84	0,96	10	3200	32	16000	16000
0	5,68	1,92	11	6400	34	32000	32000
1	11,36	3,84	12	12800	36	64000	64000
2	22,72	7,68	13	25600	38	128000	128000
3	45,44	15,36	14	51200	40	256000	256000
4	90,88	30,72	15	102400	42	512000	512000
5	181,76	61,44	16	204800	44	1024000	1024000

BATT 9 VOLT - IEC 6 F 22

PROFISIX is switched off if the measuring button (6) was not depressed and if the storage time (see page 7) has expired. (To be perfectly certain, you may also remove the batteries.)

It is sufficient to make this test at prolonged intervals.

Test the Battery

The PROFISIX operates on a 9 V battery; IEC 6 F 22. It is supplied with an Alkaline battery which is preferable because of its superior technical characteristics. You will find a listing of suitable batteries on page 29.

It is advisable to check the condition of the battery from time to time: After depressing the red measuring button (6), hold down the green battery test button (9). The indicator needle (4) should now come to rest in the green area marked "BATT". Otherwise, the battery must be replaced.

Replace the Battery

To replace the battery, remove the cover of the battery chamber (30) on the underside of the PROFISIX by sliding it off in the direction of the arrows.

After inserting the fresh battery, make the test described above.

5

After the spherical diffuser (1) has been set for the desired measuring method, depress the measuring button (6). The PROFISIX measures as long as this button is held down. When you release the button (6), the value measured at that moment will be automatically stored in the electronic memory of your PROFISIX for half a minute.

You then rotate the computer ring (24) until the indicator needle (4) points exactly at the "0" (3) on the indicator scale (2). The direction signals (5) tell you in which direction the computer ring (24) must be rotated.

After you have set the needle at "0", your PROFISIX gives you complete exposure information in combinations of f-stops and exposure times (17 and 18), or (for motion picture cameras) f-stops for a specific operating speed in frames per second (18 and 19) (see also page 13).

At the end of the storage cycle the PROFISIX switches itself off automatically and the indicator needle (4) returns to the green zero line (3). Your measured reading remains set on the scales as long as you do not move the computer ring (24).

If you want to make a new measurement before the one-minute cycle is ended, simply depress the red measuring button (6); this clears the electronic memory and the new measurement is stored when you release the measuring button.

7

Measurement

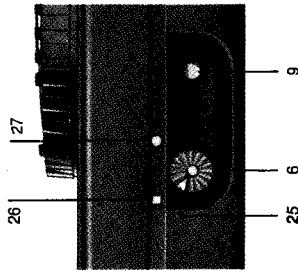
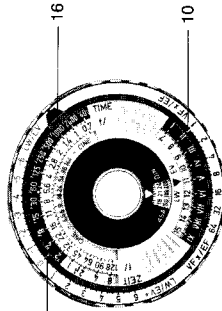
The two methods of measuring — reflected or incident light measurement — are described on pages 15 to 17. A hand held exposure meter like the PROFISIX is particularly well suited to the alternate application of either measuring method.

As the basic component of the PROFISYSTEM, furthermore, the PROFISIX provides the capability of programming for Extension Factors and Exposure Compensation Factors to give you direct read-outs without further calculations on your part (see page 8).

The normal half-minute measuring cycle of the PROFISIX can be overridden for extended measuring times with the red measuring button (6) (see page 8).

Standard Setting

Measuring with the Standard Setting means that the red signal field is concealed by the black cover (16) and the white selector index (25) on the measuring button (6) is set at the square setting mark (26).



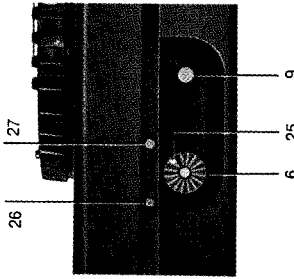
6

Extended Measurement

You can override the electronic storage to make measurements which require more measuring time (for example: extensive contrast measurements). For extended measuring, depress the red measuring button (6) and lock it in place by turning it so that the white selector index (25) is set at the round setting mark (27). Your PROFISIX now indicates the consecutive values of various measurements without storage, and the meter does not switch off automatically. Naturally, this also puts a heavier load on the battery.

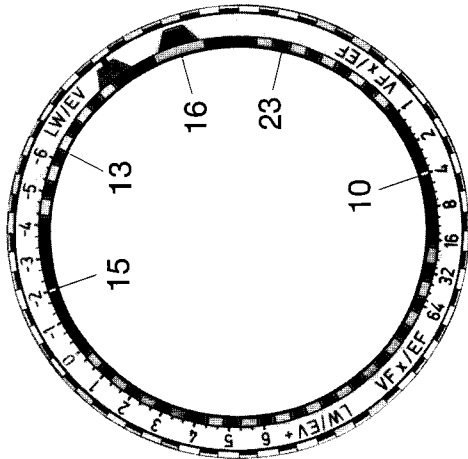
To end the extensive measuring mode, depress the measuring button (6) and turn it to the left so that its white index (25) is set at the square setting mark (26) again. The value measured at the moment of releasing the button will be stored for approximately half a minute, after which the PROFISIX switches itself off.

Please don't forget — after completing extensive measurement — to turn the white index of the measuring button to the square setting mark (26) so that the PROFISIX switches itself off after a minute.



8

Modification of Standard Exposure



Specific modification of the standard exposure may be desirable or necessary for a number of different reasons, e.g. when using filters (filter factors or f-stop factors may be given), when using cameras with bellow extension, using extension rings, working with Macro lenses, or to compensate for reciprocity failure (see page 28) or when using the zone system (page 24).

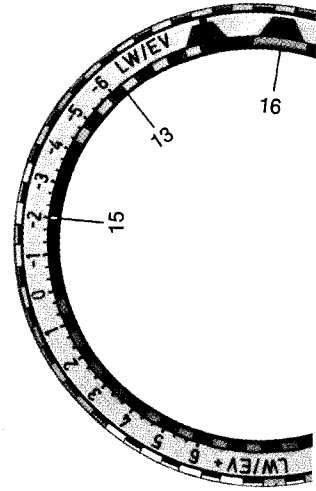
You can set the applicable exposure value differences accurately on the outer scales (11) and (13): While holding the computer ring (24) rotate the inner setting ring (23) until one of the two white index lines (10) or (15) is set to the desired value. With such a setting the red signal under the cover (16) becomes visible to indicate, at a glance, that an extension factor or exposure value modification has been set on the scales.

9

Exposure Value Modification

You can set an exposure value modification with the white index line (15) on the green scale (13).

Example: If the filter is marked "-2EV" you set the white index line (15) of the green scale (13) to "-2". This factor will now be considered automatically.

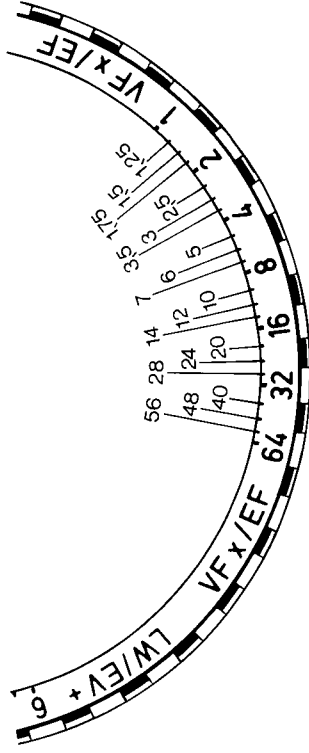


11

Extension Factors

The scale for extension factors (11) is logarithmic. Intermediate factors indicated by scale lines are listed in the illustration.

Example: You want to use a filter marked "4x". Set the white index line (10) of scale (11) to "4", as shown in the illustration on page 9. The filter factor will now be considered automatically in your measurements with the PROFISIX.

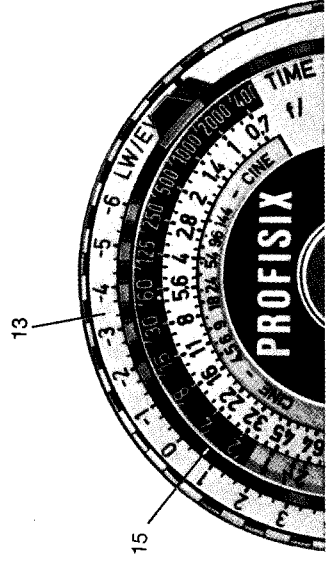


10

Modification of Exposure Times

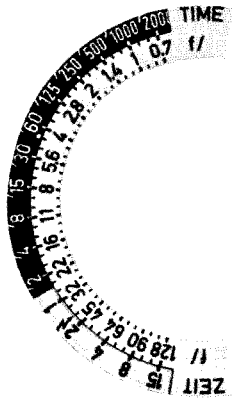
In the event that exposure time tolerances of your camera, or the sensitivity of your film (page 23) require shorter exposure, you can also set the applicable values on the green scale (13), by increasing the exposure value.

Example: You have determined that, for optimal results, $\frac{2}{3}$ less exposure is required. Set the white index line (15) at "+ $\frac{2}{3}$ " (higher exposure value). This factor is then automatically considered when you read the exposure scales



12

Reading the scales



- '2, '4, '8 are fractions of seconds.
- Un-marked numerals 1, 2, 4 are full seconds.
- 1^m, 2^m, 4^m etc. are minutes.
- 1^h, 2^h, etc. are hours.
- The un-numbered white dot between '30 and '60 is the reading point for cinematographers (1/50 sec).

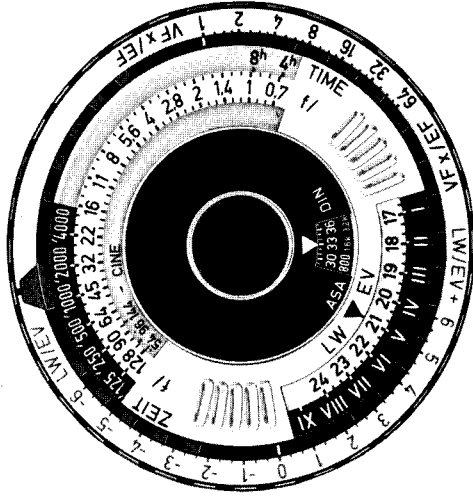


- CINE frames per second (intermediate values)
- CINE f.p.s. and corresponding exposure times.**
- Note:** On some motion picture cameras, the exposure time at 18 f.p.s. is not 1/36 second.
- Please check instructions for your camera!**

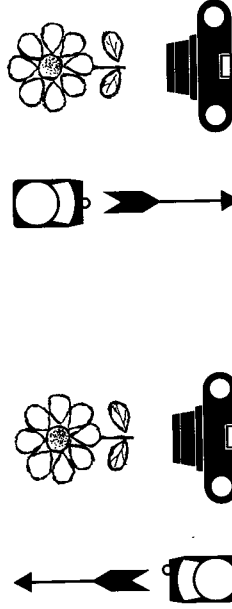
Extreme Film Sensitivities

When using exceptionally "fast" or "slow" films, the computer may, in extreme cases, show scale position as illustrated here. In these cases, exposure times are shown opposite small and large f-stops.

Here only the exposure times indicated in the upper half of the computer ring apply.



Reflected Light Measurement — Incident Light Measurement



Reflected Light Measurement. Move the spherical diffuser (1) all the way to the right until it clicks into place. Point the PROFISIX toward the subject, as indicated by the arrow in the illustration. The measuring angle is 30°.

Incident Light Measurement. Move the spherical diffuser (1) so that it clicks into place centered over the round window. Point the PROFISIX from the subject toward the camera, as indicated by the arrow in the illustration. The measuring angle limitation is eliminated.

In **reflected light measurement** (from camera toward subject), the PROFISIX measures the light reflected by objects within a 30° angle (see also page 18 "Measuring circle of the PROFISIX"). The resultant reading depends on the intensity of the illumination and on the reflecting properties of the scene. Thus, under identical illumination, the indicator needle will be deflected less by dark objects than by bright ones. The PROFISIX adds the light and dark portions and indicates an average value. Therefore, if either dark or light areas predominate, better results will be obtained with the method of incident light measurement (page 17).

The small 30° measuring angle permits carefully aimed measurements. You can "sample" various parts of the scene to determine how contrasty or balanced the subject is in its overall brightness. For gray card measurements, too, the small measuring angle is advantageous. To make such a measurement, place the gray card in the area of greatest importance in a scene.

You can reduce the measuring angle of the PROFISIX to 10°, 5° or 1° with the PROFISpot, to 15° or 7.5° with the TELE (see pages 19 and 41).