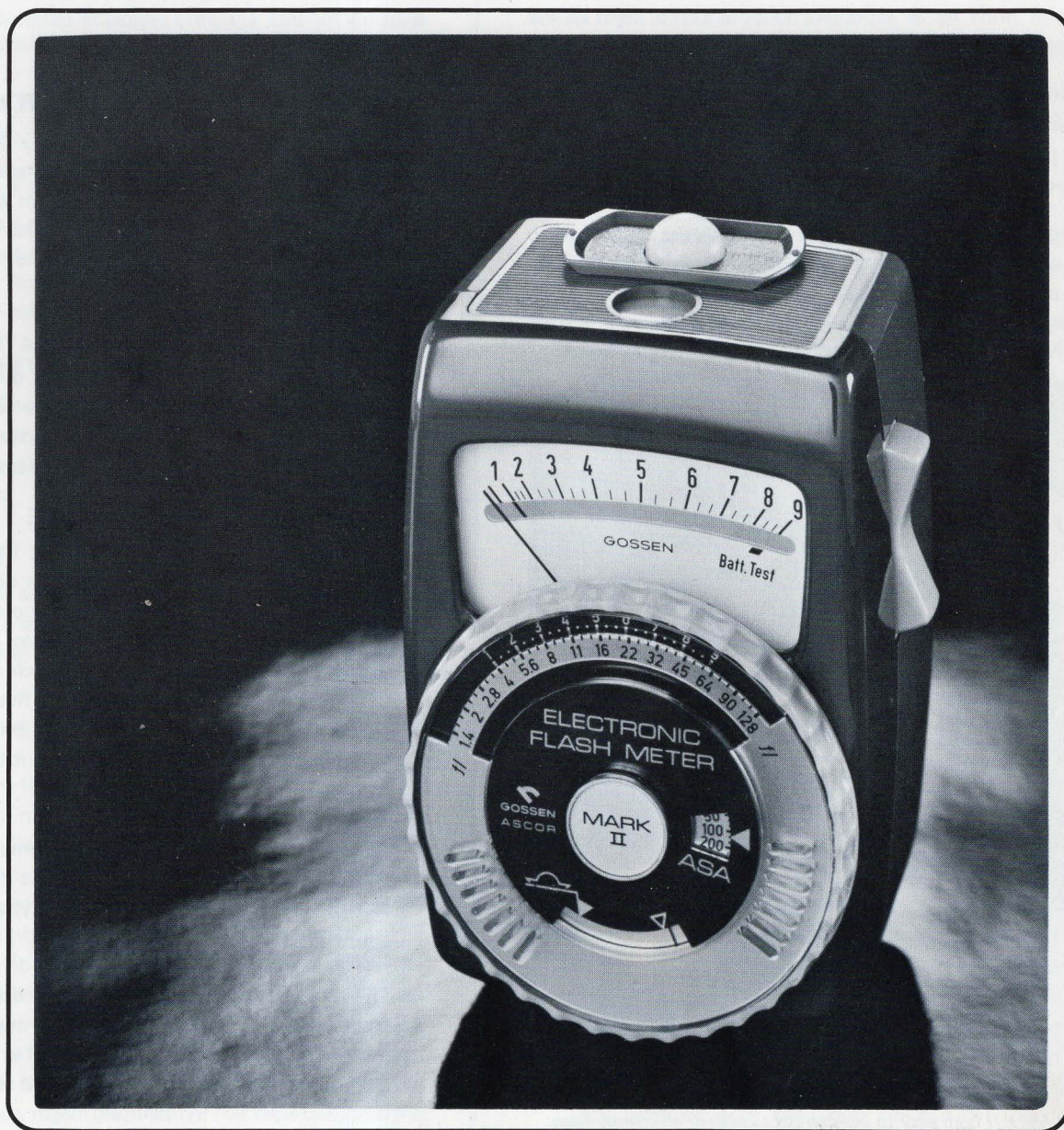


GOSSEN-ASCOR®

MARK II

ELECTRONIC FLASH METER



THE GOSSEN-ASCOR MARK II ELECTRONIC FLASH METER

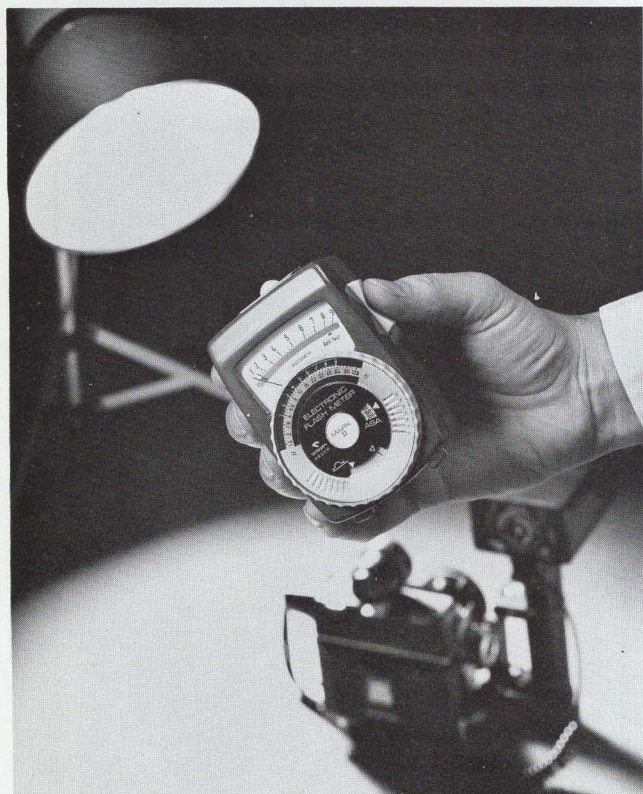
In a world oriented to mass production, Gossen is one of the few names that continues to stand for precision, craftsmanship and reliability. The Gossen-Ascor Mark II Wide Range Electronic Flash Meter is a product of that same great Gossen tradition which produced the world acclaimed Luna-Pro exposure meter. The Mark II's accuracy, repeatability and versatility make it one of the world's great meters from one of the world's great names in photo-instrumentation . . . Gossen.

WHY A GOSSEN-ASCOR FLASH METER?

Gossen realizes creative photographers know that light is more than illumination. It is a tool for communication to express mood, feeling, texture, contrast and dimension. Getting your photographic message across accurately means that you must be as articulate in your use of light as the professional author is articulate in his use of words.

Electronic flash is one of the most consistent, useful and economical sources of light available today. But, that instant pulse of light cannot always be accurately indicated with ambient light meters or guide numbers.

Control is the name of the game, and in the studio or on location, electronic flash must work for you, because all of your photographs start with light. The Gossen-Ascor Mark II Flash Meter will put you in command of electronic flash quickly, accurately and precisely.



The Mark II is an easy to use compact incident electronic flash meter designed for convenient cordless operation.



The Gossen-Ascor Mark II Flash Meter complete with wide range diffuser, battery, neckstrap and presentation case. Available from fine photographic stores.
Cat. No. 130-071

WHAT IS THE MARK II?

The new Mark II Electronic Flash Meter is a direct reading, solid state automatic flash meter designed for the discerning professional with an exceptional combination of advanced features for fast, accurate exposure determination.

● MARK II MEANS ACCURACY, RELIABILITY AND REPEATABILITY

The meter is a solid state laboratory grade instrument. And that's important, because it means the Mark II meets Gossen's exacting standards for accuracy. It measures direct, diffused or bounced electronic flash. The mirrored scale eliminates the possibility of inaccurate readings caused by parallax.

● THE MARK II IS A TRUE INTEGRATED METER

It makes an integrated measurement over the total duration of the flash, and not just of the peak output. With the Mark II, you know the exact exposure for all the light falling on the subject, not just a small part of it.

● INCREASED MEASURING RANGE

One problem in metering electronic flash at short flash to subject distances is that the meter needle may deflect off the scale due to the increased amount of light falling on the meter cell. The Mark II has a unique supplementary high range attenuator which makes it possible to extend the metering range by five full f/stops for greater flexibility under these conditions. The attenuator quickly locks on to the adapter mount when needed.

● TWO ZEROING SYSTEMS

Like all precision measuring instruments, the Mark II permits both mechanical and electric zero setting to assure optimum accuracy and reliability.

● CUMULATIVE READINGS

The creative photographer knows that multiple flash techniques are often needed and must be accurately measured. The Gossen-Ascor Mark II is designed to compute the cumulative light output of a series of successive flashes required in painting with light, working at specific f/stops and other special applications.

• AUTOMATIC SHUT OFF

You never need to worry about the battery going dead because you forgot to turn the meter off. The Mark II has a special termination circuit that automatically disconnects the battery from the circuitry at the end of the readiness cycle.

• THREE MINUTE READINESS PERIOD

Once the rocker switch is depressed, the meter is set for action, and will remain ready for three full minutes. If no flash measurement is made during this period, the meter automatically shuts off.

• TRIPOD SOCKET

Who ever heard of a tripod socket on a meter? Gossen did, and they put it there for a reason. When your subject is a long distance from the lights, or you are working short-handed in the studio, simply place the meter on a tripod at the subject position for convenient light measurements.

• UNAFFECTED BY CONTINUOUS LIGHT

Incandescent and other continuous artificial light sources will not affect the accuracy of the Mark II. This feature is particularly important with today's high intensity quartz-halogen modeling lamps.

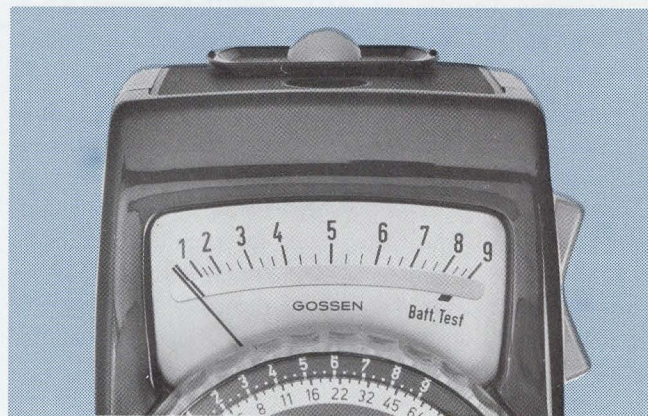
• BATTERY CHECK

The Battery Check will tell you when it is necessary to change the meter battery. With normal use, the battery supplied with the Mark II lasts for several thousand measurements.

HOW IT WORKS

The Gossen-Ascor Mark II Electronic Flash Meter integrates the total light energy from the flash unit in the same manner as the film does for its exposure during the flash duration.

Momentary pressure on the rear wing of the rocker switch sets the meter for a three minute readiness period; however, this does not open the circuits for actual measurement. But, within less than a microsecond ($1/1,000,000$ sec.) after the flash starts, the silicon cell and transistorized triggering circuit opens the actual measuring circuit which is kept active even for the longest flash duration normally encountered in electronic flash units. During this very short interval, the color corrected phototransistor and its circuit integrate the light of the electronic flash and the ambient light. The resulting measurement is indicated by the meter needle which remains "locked in" until the terminating circuit automatically disconnects the battery, or until a new measuring cycle is started by again depressing the rear wing of the rocker switch.



The easy to read meter face with mirrored linear scale and battery test indicator. Calibrated in $1/3$ f stop increments.

WHAT THE MARK II CAN DO FOR YOU

There are many instances when you need to know more than just the exposure. Here are some practical examples of how the Mark II can help you measure electronic flash accurately in your studio or on location.

INCIDENT EXPOSURE MEASUREMENT

Accurate incident exposure readings can be made with your Mark II by simply placing the meter at the subject and pointing it at the camera lens.

Incident exposure measuring is usually the best method of light evaluation, because the meter measures the exact amount of light falling on the subject. Metering accuracy improves with the incident method since the meter is at the subject position. This reduces the percentage of metering error drastically compared to reflected measurements. Reflected meters measure the light reflected from the subject. Consequently, the farther the reflected meter is from the subject, the greater the possibility of an erroneous reading.

RATIO LIGHTING

Proper light ratios are very important in studio lighting in order to achieve the appropriate mood and shadow detail in your photographs. For best results in color photography, the lighting ratio should generally not exceed 3:1 for average subjects. However, greater ratios are often used to create special effects.

Because the Mark II is an incident meter, it can precisely measure the individual strength of several different lights to determine a proper lighting ratio. This is accomplished by pointing the meter (from the subject position) directly toward the light to be measured. Be careful that only the light from the particular flash being measured strikes the meter. Shield the meter with a black card, or turn the lights on and off individually when making ratio readings.

CUMULATIVE FLASHES

There are times it may be necessary to work at a specific f/stop to achieve depth of field, or to use techniques like painting with light where cumulative flashes are necessary. The Gossen-Ascor Mark II Electronic Flash Meter has the ability to measure a series of successive flashes accurately and easily.

Example: You must work at f/16 to maintain proper depth of field. However, one flash from your lights indicates f/8 as the proper lens setting. Place the Mark II at the subject position and trigger the flash units successively until the meter reads the required f/number. Next, set the camera on bulb or time (the studio must be dark), and expose the film by manually triggering the flash unit using the same number of flashes that the meter indicated to give the proper exposure.

Meter Reads

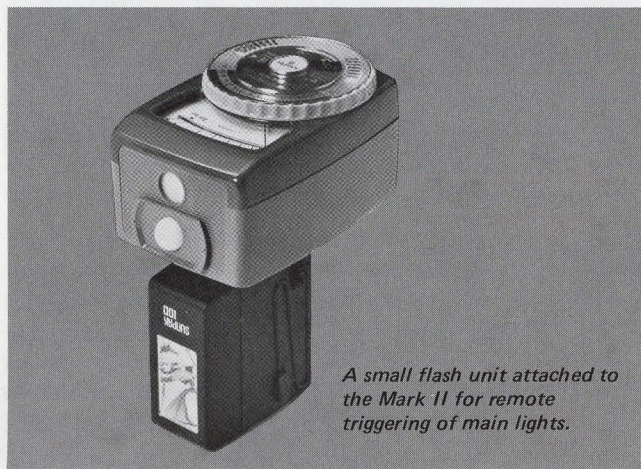
After the first flash	f/8
After the second flash	f/11
After the third flash	f/11 1/2+
After the fourth flash	f/16 (required f/number)

CHECKING FLASH UNIT OUTPUT

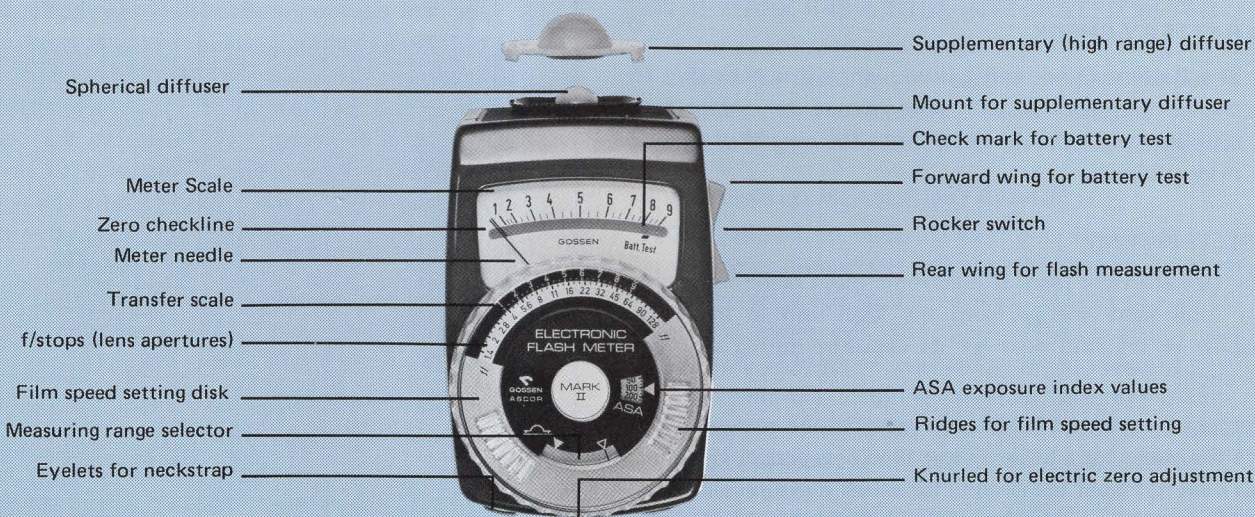
The Gossen-Ascor Mark II Electronic Flash Meter can also be used to verify the flash to flash consistency of your electronic flash units. This is an excellent way to make certain that the units are producing the same light output from one flash to the next, especially if the flash units are not regulated.

REMOTE TRIGGERING OF THE FLASH UNIT AND CORDLESS OPERATION

The cordless feature of the Mark II provides a great deal of flexibility and freedom of movement in a studio situation. For even greater ease of operation, attach photo slaves to the main lights, and mount a small flash such as the Sunpak 100 to the tripod socket of the Mark II Flash Meter. The small flash can then be used to trigger the main units without a cord, allowing complete mobility to any point in the studio.



And there you have it, The Gossen-Ascor Mark II Wide Range Electronic Flash Meter. A precisely accurate direct reading electronic flash measuring instrument that can give you the freedom to be creative with electronic flash both in the studio and on location.



SPECIFICATIONS

Measuring Method	Incident light measurement from subject to camera; the light falling on the subject is measured.
Light-Sensitive Cells	One phototransistor, silicon One photoresistor, silicon (both cells are color-corrected)
Measuring Angle	180 degrees
Computer Scales	ASA 6 to ASA 6400 f/1 of f/90 (all scales linear, 1/3 increments)

Dimensions	4"x2-5/8"x2-1/8"
Weight	8-3/4 oz.
Battery	15V (Type IEC 10 F 15) The above type number corresponds to: EVEREADY 504 BURGESS Y 10 RAY-O-VAC 220 and similar batteries

Prices and specifications subject to change without notice.

GOSSEN DIVISION

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GO-D203 Printed in U.S.A.