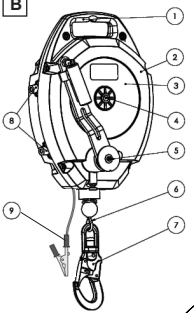
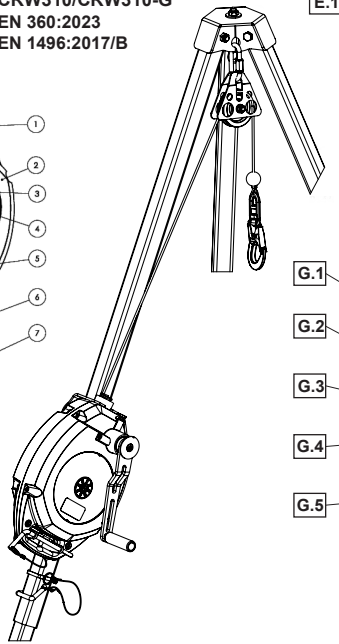
A

CRW310/CRW310-G
EN 360:2023
EN 1496:2017/B

B

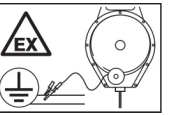




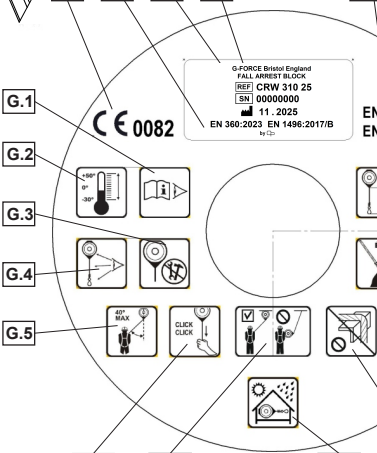
I

E.1

F

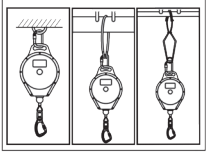


E.2 E.3 E.4 E.5 E.6 E.7

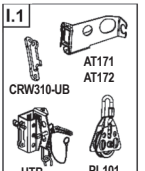


G.1 G.2 G.3 G.4 G.5 G.6 G.7 G.8 G.9 G.10 G.11 G.12 G.13 G.14

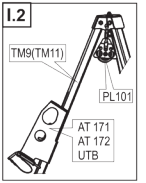
J.1



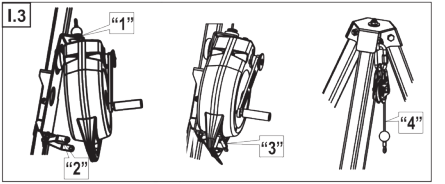
I.1



I.2



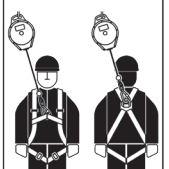
I.3



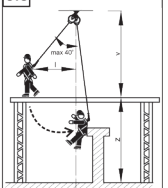
I.4

	TM1	TM6	TM7 TM9 TM9L	TM9-N TM9-W	TM9-NFK	TM12 TM12-2	TM13	TM14-ZSE	TM15 TM15-G TM15MINI	TM16	LAD	ALUQUAD
CRW310	AT171	AT172	AT171 + PL101	AT171 + PL101			AT172	AT172				
CRW310					UTB + CRW310-UB	UTB + CRW310-UB + PL101		UTB + CRW310-UB	UTB + CRW310-UB	UTB + CRW310-UB	PAD-LAD-UB + CRW310-UB	CRW310-UB

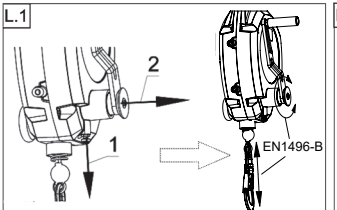
J.2



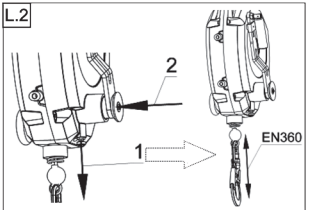
J.3



L.1



L.2



EN

A. NOTE: Please read these instructions for use before working with the protection system.

B. DESCRIPTION

The CRW310/CRW310-G device combines the functionality of a retractable type fall arrester and a rescue lifting device. It acts as a retractable type fall arrester, when it stops a fall that is in progress, and it acts as a rescue lifting device, when it enables the user to be rescued once the fall has been arrested. It conforms to the following standards: EN 360:2023 and EN 1496:2017/B. It is designed to protect one person. The permissible user weight is between 50 kg and 140 kg.

The CRW310-G version of the device may be used in potentially explosive areas.

1 - Handle for transit and hanging on a structure
2 - Aluminium alloy casing
3 - Information and identification labels
4 - Cable reel with locking mechanism and brake
5 - Manual winch with lifting and lowering functions
6 - Working line consisting of 4.7 mm diameter galvanised steel wire
7 - Snap hook with swivel shackle and fall indicator
8 - Sockets for attaching adapter for tripod installation
9 - Earthing wire (CRW310-G only)

C. TECHNICAL DATA

Maximum working load: 140 kg;
Minimum working load: 50 kg;
Working length: 25 m;
Working temperature: from (-30)°C to +50°C;
Automatic brake to prevent uncontrolled user descent;
Two-function switch;

D. SERVICE LIFE

The life of the device is indefinite, provided that periodic maintenance is carried out in accordance with the manufacturer's guidelines.

E. KEY TO MARKING

E.1 - manufacturer or dealer of the equipment (name and address),
E.2 - CE marking and reference of notified body responsible for production supervision,
E.3 - Month and year of manufacture,
E.4 - Serial number,
E.5 - Part number,
E.6 - Reference numbers and years of issue of applicable standards; class of device,
E.7 - month and year of next periodic inspection (maintenance service).

F. USE IN POTENTIALLY EXPLOSIVE ATMOSPHERES

The CRW310-G devices may be used in the potentially explosive areas: 1, 2, 20, 212, 22 (as per PN-EN60079-10-1:2016 and PN-EN60079-10-2:2015). The devices are fitted for this purpose with an earthing cable, which must be connected to an earthed structure when used in Ex zones.

G. AFFIXED PICTOGRAMS

G.1 - Read the manual before use,
G.2 - Working temperature range,
G.3 - Do not attempt to repair on your own,
G.4 - Check the device before use,
G.5 - Allowed line deviation from vertical,
G.6 - Maximum working length (lifting height),
G.7 - Do not let go of the line abruptly,
G.8 - Use only with EN361 certified full body harnesses,
G.9 - Do not use if cable is damaged,
G.10 - Permissible user weight (range),
G.11 - Verify correct locking function before use,
G.12 - Correct/incorrect position of use,
G.13 - Ensure proper storage conditions,
G.14 - Prevent line contact with sharp edges.

H. SERVICE LOG

The company that uses this protective equipment is responsible for issuing and maintaining a Service Log for its protective equipment. The Service Log should be kept by a person in charge of protective equipment in the company. The Service Log must be filled in before the equipment is first issued for use. Complete the Service Log with all information concerning: periodic inspections, repairs and reasons for withdrawal of protective equipment from use. Ensure the Service Log is preserved for the lifetime of the equipment. Never use any protective equipment that is not accompanied with its Service Log.

H.1 - Equipment model and type
H.2 - Part number
H.3 - Serial number
H.4 - Date of manufacture
H.5 - Date of purchase
H.6 - Date of entry into service
H.7 - User name
H.8 - Periodic inspection and maintenance
H.9 - Date of inspection
H.10 - Reason for inspection/repair
H.11 - Operations performed / equipment status after servicing or repair
H.12 - Name and signature of responsible person
H.13 - Date of next inspection

I. USE WITH TRIPODS

The CRW310/CRW310-G can be used with a range of PROTEKT safety tripods (see Table I-4). The device can be attached to the tripod leg (using mounting brackets: AT171 / AT172 / UTB + CRW310-UB (Fig. I-1) or hung on the tripod head using connector AZ017. When used with some tripods (see Table I-4), use the PL101 wire rope pulley (Figures I-1, I-2). Refer to Figure I-3 to see how to mount the device in the AT171/AT172 mounting bracket. Insert the wire guide sleeve of the CRW310/CRW310-G into the hole of the retaining bracket (Step "1") and then slide it onto the fork of the bracket (Step "2"). Secure the device with a cotter pin (Step "3"). Then, pull the working line out of the device and route it through the PL101 pulley or tripod pulley (Step "4").

J. RULES FOR USE AS RETRACTABLE TYPE FALL ARRESTER ACCORDING TO EN 360

When used for arresting a fall from a height, the device may be mounted on any structural member or on tripods, a selection of which is outlined in this manual. The unit allows vertical use (suspended) or after being attached to a leg of a tripod [see "USE WITH TRIPODS"].

Always find correct positions for anchor devices or anchor points, and use them during work so as to reduce the risk and the height of a fall. Ensure a stationary anchor point is located above the user, on a stable structure whose shape prevents the device from disengagement from that stationary structure. The minimum strength of a structural member must not be less than 12 kN. We recommend that you use approved and properly marked structural anchor points that comply with EN 795. Connect the device to a stationary anchor point by attaching its handle to a stationary structure using either the AZ017 connector or an EN 362 or EN 795 certified connecting lanyard (Fig. J-1). An EN 361 certified full body harnesses must be worn during EN 360 applications. Ensure the wire rope of the CRW310/CRW310-G devices is attached to attachment points marked with an upper-case "A" (buckles, loops) on full body harnesses (Fig. J-2). Make sure that the wire rope of the CRW310/CRW310-G device is connected to the harness attachment point is made using an EN 362 certified connector. Verify clearance under a user prior to each use of the fall arrest system at the work site so that, in the event of a fall, the user does not hit the ground or other obstacle along the fall path. If the device is installed vertically above the user, the clearance below the work area should be at least 1.5 m. If the wire rope of the retractable type fall arrester is off the vertical, a "pendulum effect" occurs during fall arrest, which is typically undesirable. To reduce this effect, the unit's wire rope should not be used at more than 40° from the vertical. To maintain this safe working condition, the user should not move horizontally away from the anchor point by more than distance "l", which is 1/2 the height of the CRW310/CRW310G device above the working level "v". The clearance below the level of a workstation must be greater than 1.5 m + horizontal distance "l" (Fig. J-3).

K. RULES FOR USE AS RESCUE DEVICE ACCORDING TO EN 1496

For rescue purposes, the device may be mounted on any structural member (suspended vertically) or on tripods, a selection of which is outlined in this manual. The device can be attached to a fixed structural member with a minimum strength of not less than 12 kN. Connect the device to an anchor point using the connector (part no. AZ017) of an EN 362 or EN 795 certified connecting lanyard (Fig. J-1). The unit can also be mounted on a tripod head (suspended vertically) or attached to a tripod leg. [see "USE WITH TRIPODS"]

The recommended retaining devices for rescue purposes include: (1) rescue harnesses conforming to EN 1497 or (2) full body harnesses conforming to EN 361. Connect the wire rope of the CRW310/CRW310-G to harness attachment points (buckles, loops) above the user's centre of gravity using a connector (snap hook) attached to the end of the wire rope.

Remember to maintain direct and indirect eye contact or other forms of communication at all times during rescue operations.

The lift/lower function is for rescue purposes only and any load handling operations are forbidden. The lift/lower function of the unit can be used both vertically and after mounting the unit on a tripod. When using the descent function to lower a user, never exceed a maximum distance of 2 m. For rescue purposes using the lowering feature, use EN341 certified

descender devices for rescue only.

L. SWITCHING BETWEEN RETRACTABLE TYPE FALL ARRESTER (EN 360) AND RESCUE DEVICE (EN 1496) FUNCTIONS

Only one function of the device can be used at one time: EN 360 or EN 1496. To switch the function from EN 360 to EN 1496, follow the steps shown in Figures L-1 and L-2. First, pull out safety pin "1", then pull out crank shaft "2" (Fig. L-1). By turning the crank you can raise or lower a person to be rescued in a controlled manner. Switching the function from EN 360 to EN 1496 is particularly useful when a fall triggered the device to arrest the fall and you need to rescue the user.

To switch the function from EN 1496 to EN 360, pull out safety pin "1", and then push crank shaft "2" into the unit (Fig. L-2). This will allow to operate the CRW310/CRW310-G device as a retractable type fall arrester.

M. CLEANING

Clean the outer surface of the housing and the wire rope with a damp cloth. Never use any corrosive substances or solvents. Remember to leave the wire rope extended to dry fully. After cleaning, preserve the wire rope using machine oil.

N. STORAGE

Store the unit in a dry, ventilated room at room temperature, without the presence of aggressive chemicals. Until its first use, the device should be stored in the original packaging supplied by the manufacturer.

O. ESSENTIAL RULES FOR USING DEVICE AS PERSONAL PROTECTIVE EQUIPMENT AGAINST FALLS FROM A HEIGHT

- The device must never be used by persons whose health condition could pose an additional risk to their own safety during normal use and rescue operations.
- The device and associated equipment must only be used by persons trained and competent to use it in a safe manner.
- Ensure a separate emergency action plan is drawn up for each workstation with possible hazards taken into account.
- Any modifications or alterations to the device are forbidden without the manufacturer's prior written consent; any repairs may only be carried out by the manufacturer or its authorised repair centre.
- Never use the device beyond its rated performance limits or for purposes other than its intended use.
- Combining any components of the equipment which causes a safety function of one them to interfere with or overlap with a safety function of the other one is prohibited.
- Before each use, check the condition of the protective equipment to ensure that it is in perfect working condition. In particular, check all equipment for any damage, excessive wear, corrosion, abrasion, cuts or malfunctions. Pay particular attention to checking the self-retracting function of the wire rope into the device and the correct action of the locking mechanism, as well as the legibility of the markings.
- Withdraw the device out of service immediately after: (1) any doubt arises about its safe use; (2) the device is used in arresting a fall. Equipment may be returned to service after the manufacturer or a competent body affirms in writing that a the equipment passed a thorough technical inspection.
- The following hazards and environmental factors can affect the performance of the device: – the contact of the wire rope of the device with sharp-edged components, – a "pendulum effect" during a fall of its user, – temperatures outside the permissible operating range of the device (-30°C to +50°C), – corrosive chemical agents, – contact with live electrical cables; – operation in dusty or oily environments. When using the device, obligatorily observe the relevant safety instructions in order to prevent any malfunctions of the device.
- For transport, protect the unit against mechanical damage, exposure to aggressive chemicals and the ingress of moisture.
- If the equipment is to be marketed and/or used in a country other than that in which it was originally intended, the introducing party must provide instructions for use, maintenance, scheduled inspection and repairs written in the language of the country in which the product is to be used.
- Regular periodic inspections are important for the safe use of the equipment. Only a fully operational device can ensure safe use.
- The appliance must be regularly taken out of service and subjected to a full periodic inspection including maintenance at least once a year (every 12 months of use). The periodic inspection must only be carried out by the equipment manufacturer or its authorised company. Ensure that such inspections cover all parts and functions of the equipment in accordance with the relevant manufacturer's service manual. Following inspections, the person responsible must set the date for the next periodic inspection.
- The company that uses this protective equipment is responsible for issuing and maintaining a Service Log for its protective equipment. Make sure this document includes at least the following information: name of the equipment, serial number, date of purchase and date of first release for use, name of the (institution name) user, information on repairs, inspections and withdrawals from use. The Service Log should be kept by a

person in charge of protective equipment in the company. Never use any protective equipment that does is not accompanied with its Service Log.

Manufacturer:
PROTEKT – Starorudzka 9 – 93-403 Łódź – Poland
Phone +4842 6802083 – fax: +4842 6802093 - www.protekt.com.pl

The device meets the requirements of Regulation (EU) 2016/425 on personal protective equipment.

Notified body of the EU type testing certificate issuer as per Regulation (UE) 2016/425: EU-Cert Sp. z o. o., ul. Karola Szymanowskiego 12/U6, 80-280 Gdańsk, Poland.

Production control notified body: Apave SA (n°0082) - 6 Rue du Général Audran - 92412 COURBEVOIE cedex – France

Declaration of Conformity available at www.protekt.pl

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H.1	
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