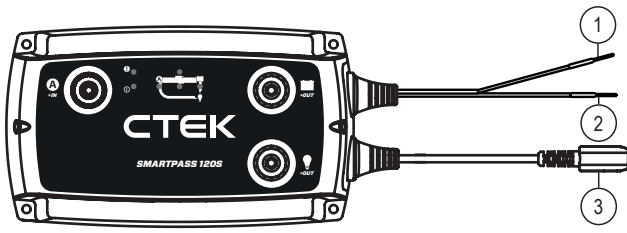


SMARTPASS 120/120S LAYOUT



NO	DESCRIPTION	LENGTH
1	SMARTPASS 120S- Smart alternator cable (red)	0.2m/0.6ft
2	Negative cable (black)	0.2m/0.6ft
3	Temperature sensor	0.2m/0.6ft

TERMINAL SCREW CONNECTIONS (M8)

SYMBOL	DESCRIPTION	CONNECTED TO-
	Input - Alternator	Starter Battery D250SE input-Alternator
	Output - Service Battery	Service Battery D250SE Output - Service Battery
	Output - Consumers	Non-critical Consumers

CABLE AND FUSE REQUIREMENTS

CONNECTION	MIN CABLE SIZES					FUSE
	0.5m/2ft	1m/3ft	2m/6ft	5m/15ft	10m/30ft	
	35mm ² /AWG2	35mm ² /AWG2	35mm ² /AWG2	50mm ² /AWG1	50mm ² /AWG1	300A
	35mm ² /AWG2	35mm ² /AWG2	35mm ² /AWG2			300A
	16mm ² /AWG5	16mm ² /AWG5	16mm ² /AWG5			50A*
Negative Cable (black)						2A
Connector Plate **	4mm ² /AWG12	6mm ² /AWG10	10mm ² /AWG8	10mm ² /AWG8	10mm ² /AWG8	

* Max current rating for SMARTPASS 120/120S is 50A. During installation, a fuse rated up to 50A should be installed. When connecting multiple consumers, individual fuses should be used with the sum of max load not exceeding 50A.

** If the D250SE and SMARTPASS 120/120S are installed in different locations and the accompanying connector plate is not used, please follow the recommendations in the table.

INSTALLATION INSTRUCTIONS



Installation must be carried out by a person suitably qualified or experienced in automotive installations. Incorrect installation can cause harm to the user, vehicle, connected devices, D250SE and SMARTPASS 120/120S.

- Identify a suitable smooth, stable and non-combustible surface where the device(s) (D250SE and/or SMARTPASS 120/120S) can be firmly secured and ventilated without exposure to fuel, oil or dirt. This selected area must allow 100mm spacing around the device(s) for heat dissipation.
Do not install the device(s) upside down.
NOTE: If a non-combustible surface is not available, use the included metal bracket in between the mounting surface and device.
- If using D250SE together with SMARTPASS 120/120S, fit the two units together with the included connector plate before mounting them to the identified surface.
- Torque-tighten the device(s) with M4 or ST4.2 screws to 2Nm/18 lb-in each corner.

⚠ Before proceeding to the next steps, ensure the service battery and starter battery are disconnected.
- Connect the INPUT and OUTPUT cables to the device by securing screws (M8).
Ensure the cables are fixed to the underlying surface closely to the D250SE and/or SMARTPASS 120/120S using cable ties or alternative fixing methods to prevent loosening of connection terminals due to vibrations and force applied to the cables.
Torque-tighten the screws after attaching the ring terminals to 8-14Nm/71-124 lb-in.
NOTE: Maximum ring terminal thickness is 6mm. Check the torque of the screws on a regular basis to avoid overheating and short circuiting connections.
- Connect the smart alternator cable, if this feature is required.
- Use tape to secure the temperature cable to a clean, flat surface on top of the service battery. Position the sensor as close to the positive terminal post as possible.
- Connect the service and starter batteries to the system.
- Connect the SMARTPASS 120/120S Negative cable (black) to the ground.
NOTE: Negative cable (black) must be fused in accordance with the CABLE AND FUSE REQUIREMENTS table.
- Check the status of D250SE and SMARTPASS 120/120S after completing the installation. Refer to D250SE AND SMARTPASS 120/120S INDICATORS section in the manual for further information.
- Add the included warning tag to the positive battery terminals of both, the start and service batteries.

WARNING!
The D250SE and SMARTPASS 120/120S are not protected against reverse polarity and short circuit. Disconnect the battery terminal posts from the batteries before installation.

WARNING!
The D250SE and SMARTPASS 120/120S are not spark free. Ensure good ventilation

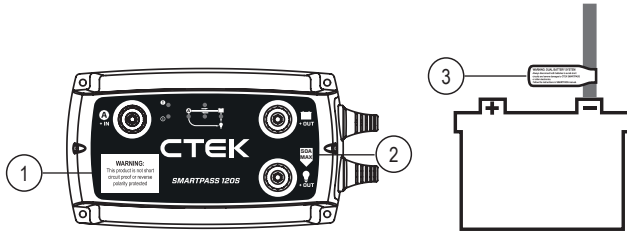
MAINTENANCE WORK

⚠ Before carrying out any service work in the electrical system, disconnect the Negative cable (black) connection to SMARTPASS120/120S. Reconnect ground cable as the final step after batteries are connected again, see below.

Disconnect BOTH batteries in the dual battery system when replacing or need to disconnect one of the batteries due to service or repairation. Keeping one of the batteries connected can cause severe damage to SMARTPASS 120/120S and other electronics.

⚠ Check status of SMARTPASS 120/120S and D250SE after completion of installation or service work. Refer to D250SE AND SMARTPASS 120/120S INDICATORS section in the manuals for further information.

LABEL PLACEMENT



NO	LABEL TEXT	LOCATION
1	WARNING: This product is not short circuit proof or reverse polarity protected.	Bottom left corner of SMART-PASS device.
2	MAX 50A	Above OUTPUT - CONSUMERS symbol.
3	WARNING: DUAL BATTERY SYSTEM Always disconnect NEGATIVE (-) terminal on both batteries to avoid short circuits, severe damage to vehicle electronics and/or personal harm. Follow the instructions in SMARTPASS manual.	On the STARTER BATTERY & SERVICE BATTERY cables, near the negative (-) terminal of the battery.

SMARTPASS 120/120S INSTALLATION INSTRUCTIONS - TRANSLATIONS

- DA Find oversat version af installationsvejledningen ved at følge dette link
- DE Über diesen Link finden Sie eine übersetzte Version der Installationsanweisungen
- ES Encuentre la versión traducida de las instrucciones de instalación siguiendo este enlace
- FI Löydät asennusohjeiden käännetyn version tästä linkistä
- FR Trouvez la version traduite des instructions d'installation en suivant ce lien
- IT Trova la versione tradotta delle istruzioni di installazione seguendo questo collegamento
- JA このリンクをクリックして、インストール手順の翻訳版を検索してください
- KO 이 링크를 따라 설치 지침의 번역된 버전을 찾으세요.
- NL Vind de vertaalde versie van de installatie-instructies door deze link te volgen
- NO Finn oversatt versjon av installasjonsinstruksjonene ved å følge denne lenken
- PL Znajdź przetłumaczoną wersję instrukcji instalacji, klikając ten link
- SE Hitta översatt version av installationsinstruktionerna genom att följa denna länk
- ZH 通过此链接查找安装说明的翻译版本



ctek.com/support/smartpass120update

NOTES OF RECYCLING

- DA Bemærkninger Om Genbrug
- DE Hinweise Zum Recycling
- ES Notas Sobre El Reciclaje
- FI Kierrätystä Koskevia Huomautuksia
- FR Remarques Sur Le Recyclage
- IT Note Sul Riciclaggio
- NL Opmerkingen Over Recycling
- NO Merknader Om Resirkulering
- PL Uwagi Dotyczące Recyklingu
- SE Anmärkningar Om Återvinning



ctek.com/about-us/recycling

NUR DEUTSCHLAND

Helfen Sie mit, alle Materialien zu recyceln, die mit diesem Symbol gekennzeichnet sind. Entsorgen Sie solche Materialien, insbesondere Verpackungen, nicht im Hausmüll sondern über die bereitgestellten Recyclingbehälter oder die entsprechenden örtlichen Sammelsysteme.

UNIQUEMENT POUR LA FRANCE

