

Read Measuring Value Blocks, through MY 2001

Overview of selectable display group numbers

Display group number	Display field	Description	Display field page
001	1	Compressor cut-off conditions	→ Anchor
	2	Voltage for A/C Clutch -N25- (in volts)	
	3	Voltage terminal 15 (in volts)	
	4	Signal for "Ignition Off" period (stand time)	
002	1-4	Left Temperature Flap Motor -V158-	→ Anchor
003	1-4	Right Temperature Flap Motor -V159-	→ Anchor
004	1-4	Central Air Flap Motor -V70-	→ Anchor
005	1-4	Defroster Flap Motor -V107-	→ Anchor
006	1-4	Air Flow Flap Motor -V71-	→ Anchor

Display group number	Display field	Description	Display field page
007	1	Calculated ambient temperature (for outside air temperature display - G106-, integrated into instrument cluster)	→ Anchor
	2	Fresh Air Intake Duct Temperature Sensor -G89-	
	3	Outside Air Temperature Sensor -G17-	
	4	Coolant temperature (calculated by -E87-)	
008	1	Left Vent Temperature Sensor -G150-	→ Anchor
	2	Right Vent Temperature Sensor -G151-	
	3	Footwell Outlet Temperature Sensor -G192-	
	4	Instrument Panel Interior Temperature Sensor -G56-	

Display group number	Display field	Description	Display field page
009	1	Specified voltage at Fresh Air Blower -V2-	→ Anchor
	2	Actual voltage at Fresh Air Blower -V2-	
	3	Voltage at terminal 58d (after dimmer for illumination) -E20- in %	
	4	A/C control heads with part number until and including index "A" Not assigned A/C control heads with part number and from index "B" (with index "B", "C", "F" and "G" introduced from software version "D60"). Voltage at terminal "58s"	



Note

Display field "4" in display group "009" is only for A/C control heads with part number 4B0 820 043 and from index "B" (with index "B", "C", "F" and "G" introduced from software version "D60").

Display group number	Display field	Description	Display field page
010	1	Engine speed (RPM)	→ Anchor
	2	Vehicle speed	
	3	Auxiliary heater	

	4	Auxiliary heating on / off	
011	1	Coolant temperature (signal sent by instrument cluster)	→ Anchor
	2	A/C compressor intervention	
	3	A/C Pressure Switch -F129-	
	4	A/C control heads with part number until and including index "G" and with index "P", "Q", "R" and "S". Not assigned	
		A/C control heads with part number and index "H", "J", "K" or "L" as well from index "T". Ignition key allocation	

**Note**

Display field "4" in display group "11" is assigned only to A/C control heads with part number 4B0 820 043 with index "H", "J", "K" or "L" as well from index "T".

Display group number	Display field	Description	Display field page
012	1	Sunlight Photo Sensor -G107- (left side)	→ Anchor
	2	Sunlight Photo Sensor -G107- (right side)	
	3	Not assigned	
	4	Not assigned	
013	1 ... 4	A/C control heads with part number and index "H", "J", "K" or "L" as well from index "T" and with index "AE", "AF", "AG", "AH". The last four compressor cut-off conditions that were effective for more than 20 seconds.	→ Anchor

**Note**

Display group "13" is assigned only to A/C control heads with part number 4B0 820 043 with index "H", "J", "K" or "L" as well from index "T" and with index "AE", "AF", "AG", "AH".

Display group 001 (Compressor cut-off conditions, voltage for A/C Clutch and at terminal 15)**Note**

- ♦ If compressor cut-off condition 1, 8, 11 and 12 exists, the A/C Clutch -N25- cannot be activated during the output diagnostic test mode → Chapter „Diagnostic Function 03, Output Diagnostic Test Mode“.
- ♦ If compressor cut-off condition "5" appears together with another compressor cut-off condition, disregard cut-off condition "5".
- ♦ If several compressor cut-off conditions exists simultaneously (display field 1), the display will either show them all alternately or it will show only the cut-off condition which is assigned the highest priority by the A/C Display Control Head -E87-.
- ♦ If the A/C Pressure Switch -F129- is open, compressor cut-off condition 1 (excess pressure) will appear initially and the compressor is switched off. If -F129- remains open for more than 30 seconds, the system will switch to compressor cut-off condition 3 (low pressure, refrigerant system empty).

Display field	Indicated	
1	Code	Compressor cut-off conditions:
	0	Compressor on: No cut-off condition detected, if the compressor is not switched on, carry out output diagnostic test mode → Chapter „Diagnostic Function 03, Output Diagnostic Test Mode“ and electrical testing, → Chapter „Circuit and Component Test with VAG 1598A“.
	1	Compressor off: - A/C Pressure Switch -F129- (between terminals 2 and 1) is open (excess pressure or loose terminal in wiring connection) – Repair malfunction DTC table, ⇒ → Chapter „DTC Table“ and electrical testing → Chapter „Circuit and Component Test with VAG 1598A“.

Display group 001 (continued)

Display field	Indicated	
1	Code	Compressor cut-off conditions:
	2	Not assigned
	3	Compressor off: A/C Pressure Switch -F129- (between terminal 2 and 1) is open (low pressure, refrigerant system empty, or open circuit). – Repair malfunction DTC table, ⇒ → Chapter „DTC Table“ and electrical testing → Chapter „Circuit and Component Test with VAG 1598A“ .
	4	Not assigned
	5	Compressor off: - Engine speed less than 300 RPM) - No engine speed signal detected. – Check for open circuit in wiring connection between instrument cluster, Engine Control Module (ECM) and A/C Display Control Head -E87-, terminal 2).
	6	Compressor off: Compressor switched off via ECON button on A/C Display Control Head -E87-. – Switch compressor on (press AUTO button)

Display group 001 (continued)

Display field	Indicated	
1	Code	Compressor cut-off conditions:
	7	Compressor off: Compressor switched off via "OFF" button on A/C Display Control Head -E87-. – Switch compressor on (press AUTO button)
	8	Compressor off: Measured outside temperature less than 2° C (Celsius). – Outside temperature less than 2° C (check vehicle in a heated room)
	9	Not assigned
	10	Compressor off: Supply voltage for A/C Clutch -N25- lower than 9.5V (display field 3 and DTC table ⇒ → Chapter „DTC Table“).
	11	Compressor off: Engine temperature too high – Instrument cluster has detected excessive engine temperature and has switched the output to Ground, check.
		– Check for short circuit in wiring connection between instrument cluster and A/C Display Control Head -E87- (connector -A- terminal -3-). Refer to → Electrical Equipment; Rep. Gr.90

Display group 001 (continued)

Display field	Indicated	
1	Code	Compressor cut-off conditions:
	12	Compressor off: A/C compressor engagement – Engine Control Module (ECM) switched the

		compressor off (check display group 010 ⇒ → Anchor and output diagnostic test mode → Chapter „Diagnostic Function 03, Output Diagnostic Test Mode“).
	13	Compressor off: Compressor switch on delay (approximately 10 seconds) at engine speed higher than 6000 RPM – Not relevant for dealership repairs.
	14	Compressor off: - A/C Pressure Switch -F129- (switch between terminals 1 and 2) has switched 30 times during current driving cycle. - Loose connection in wiring between A/C Pressure Switch -F129- and A/C Display Control Head -E87-. - Malfunction in A/C Pressure Switch -F129- or in refrigerant system (DTC table ⇒ → Chapter „DTC Table“ and electrical testing → Chapter „Circuit and Component Test with VAG 1598A“).

Display group 001 (continued)

Display field	Indicated
2	Voltage at A/C Clutch -N25-, connector -B-, terminal -3-). If displayed value with engine running and A/C Clutch -N25- activated is less than 12 volt, check wiring connection to A/C Display Control Head -E87- (B+ and Ground (GND) connections using wiring diagram.
3	Voltage at terminal "15" in volts (connector -D-, terminal -9-). If displayed value with engine running is less than 12 volt, check wiring connection to A/C Display Control Head -E87- (B+ and Ground (GND) connections using wiring diagram.
4	Signal for "ignition off" period (Stand time) → Note . - Time elapsed between switching ignition off and switching ignition on. - Display value between 00:00 h and 04:00 h.

¹⁾ If no signal for the "ignition off" period is detected by the A/C Display Control Head -E87- when the ignition is switched on (signal comes from instrument cluster), the A/C Display Control Head -E87- assumes that the vehicle has been left standing for more than 4 hours, and the engine temperature is assumed to be identical to the ambient temperature. If the system is in heating mode, there may be a delay before the fresh air blower switches on, even though the engine is warm. The outside air temperature display -G106- in the instrument cluster may also display incorrect ambient temperature values.

Display group 002 (Left Temperature Flap Motor -V158-)

Display field	Indicated
1	Actual feedback value of Potentiometer-actuator for temperature flap left -G220- (in actuator for temperature flap left -V158-). - Display value greater than 5 and less than 250. - Maximum permissible deviation: 3 units greater or less than specified feedback value (only in greater than 50 but less than 200).
2	Specified feedback value for -G220- (calculated by A/C Display Control Head -E87-). Display value 5 - 250.
3	Value for Potentiometer-actuator for temperature flap left -G220- determined during basic setting and stored in A/C Display Control Head -E87- when positioning motor is at end stop position for heating mode (temperature flap directs air through heat exchanger). Display value greater than 5 and less than 50.
4	Value for Potentiometer-actuator for temperature flap left -G220- determined during basic setting and stored in A/C Display Control Head -E87- when positioning motor is at end stop position for cooling mode (temperature flap directs air past the heat exchanger). Display value greater than 200 and less than 250.

**Note**

- If the display values in display fields 3 or 4 are outside the permissible range DTC table ⇒ → **Chapter „DTC Table“**.
- If the feedback value in display field 1 is less than 5 (short circuit) or greater than 250 (open circuit) carry out electrical testing ⇒ → **Chapter „Circuit and Component Test with VAG 1598A“**
- The A/C Display Control Head -E87- is programmed with tolerance ranges between 5 and 50 and between 200 and 250 for feedback values relating to the end stops of the actuator for temperature flap left -V158-.

Display group 003 (Right Temperature Flap Motor-V159-)

Display field	Indicated
1	Actual feedback value of Right Temperature Flap Potentiometer/Actuator - G221- (in actuator for temperature flap right-V159-). – Display value greater than 5 and less than 250. – Maximum permissible deviation: 3 units greater or less than specified feedback value (only in greater than 50 but less than 200).
2	Specified feedback value for -G221- (calculated by A/C Display Control Head -E87-). – Display value 5 - 250.
3	Value for Right Temperature Flap Potentiometer/Actuator -G221- determined during basic setting and stored in A/C Display Control Head - E87- when positioning motor is at end stop position for heating mode (temperature flap directs air through heat exchanger). – Display value greater than 5 and less than 50.
4	Value for Right Temperature Flap Potentiometer/Actuator -G221- determined during basic setting and stored in A/C Display Control Head - E87- when positioning motor is at end stop position for cooling mode (temperature flap directs air past the heat exchanger). – Display value greater than 200 and less than 250.

**Note**

If the values do not match, see notes on display group 002 (see → [Anchor](#)).

Display group 004 (Central Air Flap Motor -V70-)

Display field	Indicated
1	Actual feedback value of Central Flap Motor Position Sensor -G112- (in Central Air Flap Motor -V70-) – Display value greater than 5 and less than 250. – Maximum permissible deviation: 3 units greater or less than specified feedback value (only in range of greater than 50 but less than 200).
2	Specified feedback value for -G112- (calculated by A/C Display Control Head -E87-). – Display value 5 - 250.
3	Value for Central Flap Motor Position Sensor -G112- determined during basic setting and stored in A/C Display Control Head -E87- when positioning motor is at lower end stop (central flap is closed, air is directed to defroster flap and footwell flap). – Display value greater than 5 and less than 50.
4	Value for Central Flap Motor Position Sensor -G112- determined during basic setting and stored in A/C Display Control Head -E87- when positioning motor is at "upper end" stop (central flap is open, footwell flap is closed, air is directed to instrument panel vents). – Display value greater than 200 and less than 250.

**Note**

- ◆ Depending on the position of the positioning motors and through the attached levers on the flaps, the following operating conditions of the climate control (and all positions in between) possible:
- ◆ - Footwell and central flap closed = Defroster mode (air to front windshield)
- ◆ - Footwell open and central flap closed = Air in footwell (feedback value in display field 1 and 2 between 70 and 90).
- ◆ - Footwell flap close and central flap open = Air flows out of instrument panel vents
- ◆ Additional notes → [Anchor](#) display group 002

Display group 005 (Defroster Flap Motor -V107-)

Display field	Indicated
1	Actual feedback value of Defroster Flap Motor Position Sensor -G135- (in Defroster Flap Motor -V107-). – Display value greater than 5 and less than 250. – Maximum permissible deviation: 3 units greater or less than specified feedback value (only in range of greater than 50 but less than 200).
2	Specified feedback value for -G135- (calculated by A/C Display Control Head -E87-). – Display value: 5 - 250.
3	Value for Defroster Flap Motor Position Sensor -G135- determined during basic setting and stored in A/C Display Control Head -E87- when positioning motor is at lower stop position (defroster flap is closed). – Display value greater than 5 and less than 50.
4	Value for Defroster Flap Motor Position Sensor -G135- determined during basic setting and stored in A/C Display Control Head -E87- when

	positioning motor is at upper stop (defroster flap is opened, air is directed onto windshield via defroster outlets in instrument panel). – Display value greater than 200 and less than 250.
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**Note**

If the values do not match, see notes on display group 002 (see → [Anchor](#)).

Display group 006 (Air Flow Flap Motor -V71-)

Display field	Indicated
1	Actual feedback value of Back Pressure Flap Motor Position Sensor - G113- (in Air Flow Flap Motor -V71-). – Display value greater than 5 and less than 250. – Maximum permissible deviation: 3 units greater or less than specified feedback value (only in range of greater than 50 but less than 200).
2	Specified feedback value for -G113- (calculated by A/C Display Control Head -E87-). – Display value 5 - 250.
3	Value for Back Pressure Flap Motor Position Sensor -G113- determined during basic setting and stored in A/C Display Control Head -E87- when positioning motor is at lower stop position (air flow flap at air intake for evaporator closed, air conditioner in air recirculation mode). – Display value greater than 5 and less than 50.
4	Value for Back Pressure Flap Motor Position Sensor -G113- determined during basic setting and stored in A/C Display Control Head -E87- when positioning motor is at upper stop position (air flow flap at air intake for evaporator opened, air conditioner in fresh air mode). – Display value greater than 200 and less than 250.

**Note**

If the values do not match, see notes on display group 002 (see → [Anchor](#)).

Display group 007 (Calculated ambient temperature for outside air temperature display -G106-, measured values from fresh air intake duct temperature sensor -G89- and outside air temperature sensor -G17- and calculated coolant temperature)

Display field	Indicated
1	Calculated ambient temperature in ° C (for outside air temperature display -G106- in drivers information display in instrument cluster).
2	Fresh Air Intake Duct Temperature Sensor -G89-. – Measured value from sensor in ° C (checking electrical testing → Chapter „Circuit and Component Test with VAG 1598A“).
3	Outside Air Temperature Sensor -G17-. – Measured value from sensor in ° C (checking electrical testing → Chapter „Circuit and Component Test with VAG 1598A“).
4	Coolant temperature in ° C calculated by A/C Display Control Head -E87- (guide value for controlling fresh air blower speed).

Notes for display fields 1, 2 and 3:

- ♦ The value in display field 1 is based on the lower of the two measured values for the ambient temperature.
- ♦ If the calculated value is too low, there may be a loose terminal in one of the two outside air temperature sensors (-G17- or -G89-) or in the wiring to them.
- ♦ The A/C Display Control Head -E87- will suppress measured values received from a malfunctioning temperature sensor and continue to control the system using an internally calculated value.

Notes for display field 4:

- ♦ The coolant temperature calculated by the A/C Display Control Head -E87- is only used to control the air conditioner, if no coolant temperature signal is received from the instrument cluster → [Anchor](#) display group 11.
- ♦ The A/C Display Control Head -E87- calculates the coolant temperature on the basis of various signals which it receives (time elapsed since ignition was switched on, engine speed, how long engine has been running, calculated ambient temperatures and how long vehicle has been left standing).

Display group 008 (Left Vent Temperature Sensor -G150-, right vent temperature sensor -G151-, Footwell Outlet Temperature Sensor -G192- and Instrument Panel Interior Temperature Sensor -G56-).

Display field	Indicated
1	Left Vent Temperature Sensor -G150-. – Measured value from sensor in ° C (checking electrical testing → Chapter „Circuit and Component Test with VAG 1598A“).
2	Right Vent Temperature Sensor -G151-. – Measured value from sensor in ° C (checking electrical testing → Chapter „Circuit and Component Test with VAG 1598A“).

3	Footwell Outlet Temperature Sensor -G192-. – Measured value from sensor in ° C (checking electrical testing ⇒ → Chapter „Circuit and Component Test with VAG 1598A“).
4	Instrument Panel Interior Temperature Sensor -G56-. – Measured value from sensor in ° C. – Integrated in -E87-, cannot be replaced separately. – Via Interior Temperature Sensor Fan -V42- air is blown from the instrument panel center part to the sensor.

**Note**

The A/C Display Control Head -E87- will suppress measured values received from a malfunctioning temperature sensor and continue to control the system using an internally calculated value. The display shows the current measured value.

Display group 009 (Voltage at fresh air blower -V2-, voltage at terminal 58d and terminal 58s)

Display field	Indicated
1	Specified voltage for Fresh Air Blower -V2- (calculated by A/C Display Control Head -E87-. – 0 V to 12.5 V (depending on setting of A/C Display Control Head -E87-).
2	Actual voltage at Fresh Air Blower -V2-. – Difference between actual voltage and specified voltage (within voltage range of vehicle's electrical system) less than 0.7 volt.
3	Voltage for illumination of displays on A/C Display Control Head -E87-. – 5% - 100% depending on position of Instrument Panel Light Dimmer Switch -E20- terminal 5 for A/C Display Control Head -E87-. – 25% if not signal received from instrument cluster.
4	A/C control heads with part number up to and including index "A". – Display field not assigned (disregard display). A/C control heads with part number and from index "B" (with index "B", "C", "F" and "G" introduced from software version "D60"). – Voltage for lighting of switch for A/C Display Control Head -E87- (terminal 58s). – 0 ... 100% depending on position of Instrument Panel Light Dimmer Switch -E20- terminal 7 to -E87-. – 10% or less 1 volt with running light off

Note for display fields 3 and 4:

- ♦ Checking input voltage for terminals 58d and terminal 58s on the A/C Display Control Head -E87- electrical testing ⇒ → Chapter „Circuit and Component Test with VAG 1598A“.
- ♦ The voltage at terminal 58d is generated by the instrument cluster as a square-wave signal. The brightness level of the display on the A/C Display Control Head -E87- depends on the period of activation.
- ♦ Display field "4" in display group "009" is only for A/C control heads with part number 4B0 820 043 and from index "B" (with index "B", "C", "F" and "G" introduced from software version "D60").
- ♦ The operating buttons on -E87- are illuminated when voltage is applied to terminal 58s.
- ♦ The brightness level of the display illumination of the A/C Display Control Head -E87- can be changed using Instrument Panel Light Dimmer Switch -E20-, even if the vehicle's running lights are switched off.

Display group 010 (Engine speed (RPM), compressor speed, vehicle speed, auxiliary heater, and additional heater on/off) on/off)

Display field	Indicated
1	Engine speed in 1/RPM)
2	Vehicle speed in km/h. – 0 = no speed signal detected since ignition was last switched on. – 1 = Speed signal detected at least once since ignition was last switched on.
3	Auxiliary heater. – 0 = Auxiliary heater not in operation (voltage at electrical connection - D- terminal 1 less than 5 volt). – 1 = Auxiliary heater not in operation (voltage at electrical connection - D- terminal 1 greater than 5 volt).
4	not applicable for USA (only for vehicles with Diesel engine)

Notes for display field 2:

If the vehicle is moved at a speed of more than 1 km/h (0.6 MPH), the speed will be displayed.

Notes for display field 3:

- ♦ If the A/C Display Control Head -E87- remains in operation after ignition is switched off and the indication "1" results, locate short circuit to B+ to

connector -D-, socket 1 and repair according to wiring diagram.

- ♦ Not applicable for USA (only for vehicles with Diesel engine)

Notes for display field 4:

- ♦ Not applicable for USA (only for vehicles with Diesel engine)

Display group 011

(Coolant temperature transmitted by instrument cluster, air conditioner compressor cut-in and A/C Pressure Switch -F129-)

Display field	Indicated
1	Coolant temperature in ° C transmitted by instrument cluster (guide value for controlling fresh air blower speed, coolant temperature too high). - 9° C to 117° C = coolant temperature in permissible range / signal OK. - 10° C = no signal detected by instrument cluster. - 65° C = no signal detected from instrument cluster or voltage at electrical connection -A-, terminal 3 is less than 5 volt. - 118° C = coolant temperature too high (temperature switch closed) , instrument cluster has switched output to Ground, voltage at electrical connection -A- terminal 3 less than 5 volt display group 001 ⇒ → Anchor display field 1.

Notes for display field 1:

- ♦ Coolant temperature and instrument panel, checking. Refer to → **Electrical Equipment; Rep. Gr.90**
- ♦ At coolant temperature up to about 50° C the system regulates itself by assuming the average of the coolant temperature value calculated by the A/C Display Control Head -E87- and the value provided by the instrument cluster. At temperatures of about 50° C or more, only the value from the instrument cluster is used.
- ♦ If the A/C Display Control Head -E87- is unable to process the signal from the instrument cluster, the display will show a coolant temperature of -10° C or - 65° C and the system will regulated itself on the basis of the value calculated by the A/C Display Control Head -E87-. If the display reads - 65° C the compressor cannot be switched off.
- ♦ At a coolant temperature of 118° C the output for the instrument cluster is switched to Ground, the A/C Display Control Head -E87- switches A/C Clutch -N25- and the display shows a coolant temperature of 118° C.

Display field	Indicated
2	A/C compressor engagement. - 0 = output for A/C compressor is open (voltage at electrical connection -C-, terminal 12 less than 5 volt). - 1 = output for A/C compressor is closed (voltage at electrical connection -C-, terminal 12 greater than 5 volt).
3	A/C Pressure Switch -F129-. - 1 = Pressure switch open (voltage at electrical connection -C-, terminal 2 less than 2 volt). - 0 = Pressure switch closed (voltage at electrical connection -C-, terminal 2 less greater 2 volt).

Notes for display field 2:

- ♦ When A/C Clutch -N25- is switched on the output is closed (voltage greater than 5 volt).
- ♦ If the voltage falls below 5 volt while the A/C Clutch is switched on (Engine Control Module (ECM) switches to Ground) the A/C Display Control Head -E87- will switch A/C Clutch -N25- off (display group 001, ⇒ → **Anchor** display field 1). → **Wiring diagrams, Troubleshooting & Component locations**

Notes for display field 3:

When A/C pressures switch -F129- is open (high/low pressure switch between terminals 1 and 2) the compressor is switched off (display group 001, ⇒ → **Anchor** display field 1).

Display field	Meaning	Remarks
4	A/C control heads with part number until and including index "G" and with index "P", "Q", "R" and "S". Display field not assigned (disregard display).	
	A/C control heads with part number and index "H", "J", "K" or "L" as well from index "T".	
	Indication 0 = Ignition was switched on with a key that has no coding in the instrument cluster. No information was received from the instrument cluster. Indication 1 = (2, 3 or 4) Ignition was switched on with the key that was given position 1 (2, 3 or 4) in the instrument cluster.	• Check adaptation of ignition key. Refer to → Electrical Equipment; Rep. Gr.90 • Up to 4 keys can be coded.

Notes for display field 4:

- ◆ When ignition is switched on, A/C Display Control Head -E87- begins with the setting that was valid when the ignition was last switched off with this key (temperature, air distribution, fresh air blower RPM).
- ◆ Coding of ignition key is transmitted to the A/C Display Control Head -E87- from the instrument cluster along with the coolant temperature and the signal "engine temperature too high" when ignition is switched on for vehicles from MY 2000 (data message). Coding of key can only be processed by A/C control heads -E87- with part number 8D0 820 043 with index "H", "J", "K" or "L" as well from index "T" and with index "AE", "AF", "AG" and "AH". No information can be transmitted if the coolant temperature is too high.
- ◆ The instrument cluster can only be transmit the coding of the ignition key on vehicles equipped with immobilizer. Refer to → [Electrical Equipment; Rep. Gr.90](#)
- ◆ Check signal from instrument cluster electrical testing ⇒ → [Chapter „Circuit and Component Test with VAG 1598A“](#).

Display group 012 (Sunlight photo sensor -G107-)

Display field	Indicated
1	Sunlight photo sensor -G107- (sunlight from left side) – 0 % 100 % (corresponding to 4.5 V and 0.5 V) depending of intensity of sunlight. or – 0 to 1000 W/m
2	Sunlight photo sensor -G107- (sunlight from right side) – 0 % 100 % (corresponding to 4.5 V and 0.5 V) depending of intensity of sunlight. or – 0 to 1000 W/m
3	Display field not assigned (disregard display).
4	Display field not assigned (disregard display).

**Note**

- ◆ The display values for the Sunlight photo sensor -G107- can be changed by shining a suitable light onto the sensor.
- ◆ If the display constantly shows about 90% of the maximum sunlight intensity regardless of how much light is reaching Sunlight photo sensor -G107-, check the wiring to -G107- according to wiring diagram to ensure is properly connected. → [Wiring diagrams, Troubleshooting & Component locations](#)
- ◆ On vehicles with A/C Display Control Head -E87- with software version "D65", the measured sunlight intensity is displayed with an incorrect value (Volt instead of Watt). You will receive the correct value by multiplying the displayed value by 2 and replace volt with watt.

Display group 013:**Last four compressor cut-off conditions**

Display field	Meaning	Remarks
1	Fourth to last compressor cut-off condition	• Break down → Anchor display group 001, display field 1
2	Third to last compressor cut-off condition	
3	Second to last compressor cut-off condition	
4	Last compressor cut-off condition	

**Note**

- ◆ Display group "13" is assigned only to A/C control heads with part number 4B0 820 043 with index "H", "J", "K" or "L" as well from index "T" and with index "AE", "AF", "AG", "AH".
- ◆ Only compressor cut-off conditions that were effective for more than 20 seconds are stored.