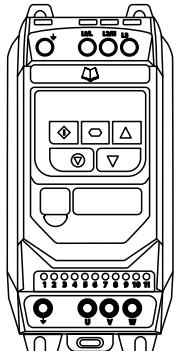


## Quick guide to frequency converters

# GREMAC

### SEW Movitrac LTE-B / Invertek Optidrive E3

#### Keypad



The configuration of the converter and monitoring of its operation are carried out via the keypad or display.

	NAVIGATION	For displaying real-time data, for accessing the Parameter configuration and saving changes.
	UP	To increase the speed in real-time mode or the Parameter values in edit mode.
	DOWN	To reduce the speed in real-time mode or the Parameter values in edit mode.
	RESET/STOP	For resetting after a fault shutdown of the inverter. Used in keypad mode to stop the inverter.
	START	If, in keypad mode, the soft key is pressed to start the drive or used to reverse the direction of rotation (if the bidirectional keypad mode is activated).

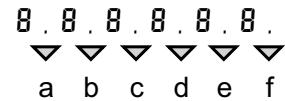
#### operating messages

Converter stopped or deactivated	Converter is startet/in operation, Display shows Output frequency (Hz)	Navigation button Push for max. 1 Sec.	Navigation button Push for max. 1 Sec.	If P-10>0, press the navigation button for a maximum of one second to display the engine speed (rpm).	The drive is in fire mode and cannot be reset until fire mode is deactivated.

#### Error reset

Push Stop. The display shows „Stop“	

#### LED display-layout



#### LED display

LED-Segment	Behavior	Meaning
a, b, c, d, e, f	Flashing together	Overload, motor output current exceeds P-08
a and f	Alternately flashing	Power loss (input AC voltage removed)
a	Flashing	Emergency mode active



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Fault Code	No.	Description	Suggested Remedy
no-Fault	00	No Fault	Not required.
01-b	01	Brake channel over current	Check external brake resistor condition and connection wiring.
01-br	02	Brake resistor overload	The drive has tripped to prevent damage to the brake resistor.
01	03	Output Over Current	Instantaneous Over current on the drive output. Excess load or shock load on the motor. <b>NOTE</b> Following a trip, the drive cannot be immediately reset. A delay time is inbuilt, which allows the power components of the drive time to recover to avoid damage.
1-OverP	04	Motor Thermal Overload (I2t)	The drive has tripped after delivering >100% of value in P-08 for a period of time to prevent damage to the motor.
0-volt	06	Over voltage on DC bus	Check the supply voltage is within the allowed tolerance for the drive. If the fault occurs on deceleration or stopping, increase the deceleration time in P-04 or install a suitable brake resistor and activate the dynamic braking function with P-34.
U-volt	07	Under voltage on DC bus	The incoming supply voltage is too low. This trip occurs routinely when power is removed from the drive. If it occurs during running, check the incoming power supply voltage and all components in the power feed line to the drive.
0-t	08	Heatsink over temperature	The drive is too hot. Check the ambient temperature around the drive is within the drive specification. Ensure sufficient cooling air is free to circulate around the drive.
U-t	09	Under temperature	The drive temperature is below the minimum limit and must be increased to operate the drive.
P-dEF	10	Factory Default parameters loaded	
E-tripP	11	External trip	E-trip requested on digital input 3. Normally closed contact has opened for some reason. If motor thermistor is connected check if the motor is too hot.
SC-0b5	12	Optibus comms loss	Check communication link between drive and external devices. Make sure each drive in the network has its unique address.
FLt-dc	13	DC bus ripple too high	Check incoming supply phases are all present and balanced.
P-LOSS	14	Input phase loss trip	Check incoming power supply phases are present and balanced.
0-01	15	Output Over Current	Check for short circuits on the motor and connection cable. <b>NOTE</b> Following a trip, the drive cannot be immediately reset. A delay time is inbuilt, which allows the power components of the drive time to recover to avoid damage.
th-Fault	16	Faulty thermistor on heatsink	
dRER-F	17	Internal memory fault (I/O)	Press the stop key. If the fault persists, consult your supplier.
4-20 F	18	4-20mA Signal Lost	Check the analog input connection(s).
dRER-E	19	Internal memory fault (DSP)	Press the stop key. If the fault persists, consult your supplier.
F-Ptc	21	Motor PTC thermistor trip	Connected motor PTC thermistor over temperature, check wiring connections and motor.
FAr-F	22	Cooling Fan Fault (IP66 only)	Check / replace the cooling fan.
0-HEAT	23	Drive internal temperature too high	Drive ambient temperature too high, check adequate cooling air is provided.
OUT-F	26	Output Fault	Indicates a fault on the output of the drive, such as one phase missing, motor phase currents not balanced. Check the motor and connections.
REF-02	41	Autotune Fault	The motor parameters measured through the autotune are not correct. Check the motor cable and connections for continuity. Check all three phases of the motor are present and balanced.
SC-F01	50	Modbus comms loss fault	Check the incoming Modbus RTU connection cable. Check that at least one register is being polled cyclically within the timeout limit set in P-36 Index 3.
SC-F02	51	CAN comms loss trip	Check the incoming CAN connection cable. Check that cyclic communications take place within the timeout limit set in P-36 Index 3.