

# ProNet Plus Series AC Servo User's Manual

(Version: V1.05)



ESTUN AUTOMATION TECHNOLOGY CO., LTD

— Total Solution Supplier //

## Appendix B

### Alarm Display

Alarm Display	Alarm Output	Alarm Name	Meaning
A. 01	×	Parameter breakdown	The checksum results of parameters are abnormal.
A. 02	×	AD shift channels breakdown	AD related electrical circuit is faulty.
A. 03	×	Overspeed	The servomotor speed is excessively high and the servomotor is out of control.
A. 04	×	Overload	The servomotor is operating continuously under a torque largely exceeding ratings.
A. 05	×	Position error counteroverflow	Internal counter overflow.
A. 06	×	Position error pulse overflow	Position error pulse exceededparameter (Pn504).
A. 07	×	The setting of electronic gear or given pulse frequency is not reasonable.	The setting of electronic gear is not reasonable or the given pulse frequency is too high.
A. 08	×	The 1st channel of current detection is wrong.	Something wrong with the inside chip of the 1st channel.
A. 09	×	The 2nd channel of current detection is wrong.	Something wrong with the inside chip of the 2nd channel.
A. 12	×	Overcurrent	An overcurrent flowed through the IPM.
A. 13	×	Overvoltage	Main circuit voltage for servomotor rotation is excessively high.
A. 14	×	Undervoltage	Main circuit voltage for servomotor rotation is excessively low.
A. 15	×	Bleeder resistor error	Bleeder resistor is faulty.
A. 16	×	Regeneration error	Regenerative circuit error.
A. 18	×	IGBT superheat alarm	IGBT temperature is too high.
A. 19	×	Motor overheat alarm	Motor temperature is too high.
A. 20	×	Power line phase shortage	One phase does not bring into main circuit power supply.
A. 21	×	Instantaneous power off alarm	An power off for more than one period is occurred in AC.
A. 22	×	Motor temperature detection sensor is break off.	Encoder cable is error.
A. 23	×	Brake overcurrent alarm	Bleeder resistor is too small, or bleeder module is faulty.

Alarm Display	Alarm Output	Alarm Name	Meaning
A. 25	×	Motor power line U overcurrent	Mechanical stuck or motor power line U phase sequence is wrong.
A. 26	×	Motor power line V overcurrent	Mechanical stuck or motor power line V phase sequence is wrong.
A. 27	×	Motor power line W overcurrent	Mechanical stuck or motor power line W phase sequence is wrong.
A. 28	×	Nikon encoder temperatur is too high	Nikon Encode internal Temperature (unit: °C)
A. 38	×	Encoder LED error	Encoder is faulty.
A. 39	×	Encoder EEPROM error	Encoder is faulty.
A. 41	×	Reserved	Reserved
A. 42	×	Servomotor type error	The parameter setting of servo drive does not match the servomotor.
A. 43	×	Servo drive type error	The parameter setting of servo drive does not match the servomotor.
A. 44	×	Reserved	Reserved
A. 45	×	Absolute encoder multiturn information error	Absolute encoder multiturn information is faulty.
A. 46	×	Absolute encoder multiturn information overflow	Absolute encoder multiturn information overflow.
A. 47	×	Battery voltage below 2.5V	Absolute encoder multiturn information is lost.
A. 48	×	Battery voltage below 3.1V	Battery voltage is too low.
A. 49	×	The position of the encoder was changed.	Not connect the battery, the battery voltage is low, or the encoder had been damaged.
A. 50	×	Serial encoder communication overtime	Encoder disconnected; encoder signal disturbed; encoder error or encoder decoding circuit error.
A. 51	×	Absolute encoder overspeed alarm detected	Absolute encoder multiturn information may be faulty. Error reasons: 1.The battery is not connected or the battery voltage is insufficient. 2.The power supply to servo drive is not turned ON when the battery voltage is normal, or the servomotor running acceleration is too high due to external reason.
A. 52	×	Absolute state of serial encoder error	Encoder or the encoder decoding circuit is faulty.
A. 53	×	Serial encoder calcaution error	Encoder or the encoder decoding circuit is faulty.
A. 54	×	Parity bit or end bit in serial encoder control domain error	Encoder signal is disturbed or the encoder decoding circuit is faulty.
A. 55	×	Serial encoder communication data checking error	Encoder signal is disturbed or the encoder decoding circuit is faulty.

Alarm Display	Alarm Output	Alarm Name	Meaning
A. 56	×	End bit in serial encoder control domain error	Encoder signal is disturbed or the encoder decoding circuit is faulty.
A. 58	×	Serial encoder data empty	The EEPROM data of serial encoder is empty.
A. 59	×	Serial encoder data format error	The EEPROM data format of serial encoder is incorrect.
A. 65	×	Interpolation given position was overflowed	The interpolation given speed is greater than maximum motor speed, and location of the cumulative is overflowed.
A. 66	×	CAN communication abnormal	CAN communication is faulty because of abnormal communication connection or disturbance.
A. 67	×	Receiving heartbeat timeout	The master station sends heartbeat time timeout.
A. 68	×	Synchronous frame was premature	The time interval for monitoring the synchronization frame is less than half of the set synchronization period.
A. 69	×	Synchronization signal monitoring cycle is longer than setting	The filling time and the cycle of the synchronous signal does not match.
A. 70	×	EtherCAT synchronization error	EtherCAT master set the period does not meet the requirements or SYNC0 is not synchronized with the drive.
A. 71	×	Internal error of ESC chip	An error has occurred inside the communication chip.
A. 80	×	CPU parallel port communication abnormal	CPU data line, address line or FRAM is faulty.
A. 81	×	Power line is disconnected	The input signals U, V or W of motor is disconnected.
A. 82	×	Torque output alarm	The torque output of the motor exceeds the set value.
A. 98	×	Pn parameter ferroelectric memory failed	Pn parameter storage operation is unsuccessful.
A. 00	○	Not an error	Normal operation status.

○: Output transistor is ON. ×: Output transistor is OFF.

A.45, A.46, A.47, A.48, A.51 only can be reset when the absolute encoder related alarm is cleared.

The multiturn data should be cleared because of the multiturn information is incorrect.