

# **SELETTORE ELETTRONICO**

AL66 ccTalk

**SCHEDA DATI** 

Rev. 1.2 IT

Il codice identificativo della gettoniera è AL66 seguito da una singola lettera maiuscola che contraddistingue la versione meccanica ( V / I / K / S ), e da un ulteriore suffisso alfanumerico che identifica la versione elettronica:

- V = modello con uscita posteriore in basso della moneta rifiutata, uscita anteriore in basso della moneta accettata
- I = modello con uscita anteriore in basso della moneta rifiutata, uscita posteriore in basso della moneta rifiutata
- **K** = modello con uscita frontale della moneta rifiutata
- **S** = modello con introduzione moneta frontale e uscita frontale della moneta scartata

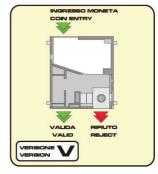
#### N.B. le gettoniere AL66 ccTalk rispettano i requisiti di immodificabilità prescritti dalla Legge Italiana (Legge n. 289,

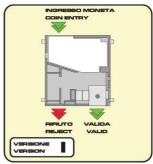
#### Dati tecnici Caratteristiche meccaniche **Formato** 31/2" standard 88 x 102 x 52 mm Dimensioni Peso 220 g **Caratteristiche elettriche** 8 V DC Tensione di alimentazione min. Tensione di alimentazione max. 26 V DC Assorbimento In accettazione 350 mA(30 ms)/100 mA In misurazione ≤30 mA In attesa (stand by) ≤25 mA Risparmio energetico standard ≤5 mA Autorisveglio ≤6 mA Tipo uscita Open collector Darlington ≤1 V Tensione uscita di saturazione Tensione uscita max. 50 V 250 mA Corrente uscita max. Tensione attivazione ingr. min. 3 V Tensione ingresso max 50 V ≈55 kΩ Impedenza d'ingresso **Accettazione monete** Numero canali moneta 16 Diametro min. moneta 16 mm Diametro max. moneta 32 mm Spessore moneta 1 to 3,4 mm Dati risposta Tempo di attivazione all'accensione ≤200 ms Tempo di attivazione al risveglio ≤50 ms Tolleranza impulso e time-put ± 2% Condizioni ambientali Temperatura ambiente operativo 0°C to 60°C Temperatura di magazzinamento -30°C to 70°C Umidità fino a 75% non condensata fino a 95% (vers. tropicalizzata)

Questo prodotto rispetta le normative EN55014-1 e EN55014-2

Compatibilità EMC

- > Microcontrollore a 8 bit con 36 KB di memoria FLASH, elevata immunità alle interferenze magnetiche e alle condizioni ambientali.
- > Tre sensori magnetici e un calibratore ottico combinati per una superiore selettività. Interfaccia analogico-digitale ottimizzato per corpi bimetallici e magnetici. Il sistema perfeziona la misurazione dei parametri, aumenta selettività e sicurezza, e rende la programmazione semplice e rapida.
- > 16 Canali di programmazione combinabili in una grande varietà di configurazioni funzionali (validatori, accumulatori, temporizzatori, multiprezzo), personalizzabili a piacere. Programmabile tramite due banchi di dipswitch, oppure da PC mediante il software di gestione Alberici.
- > Due tranciafili in dotazione sulla versione V, per una protezione integrale contro eventuali tentativi di pescaggio. Sistema anti-truffa Coin-Guard, basato sulla combinazione operativa di tre lettori ottici opportunamente dislocati.









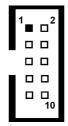


#### Connessioni

Il selettore si collega alle periferiche e alla scheda macchina mediante i connettori seguenti:

X1. Alimentazione e interfaccia standard. Il connettore X1 è una presa IDC 10 poli, il cui schema compare nella tabella a fianco.

Viene utilizzato per il collegamento della gettoniera all'eventuale separatore a 3 o 5 vie (cfr. lista in fondo).



nr.	Descrizione	
1	Gnd	
2	8-26 Vdc	
3	Out 5 / bobina separatore B	
4	Out 6 / bobina separatore A	
5	Out 7 (totalizzatore) / In 2	
6	In 1 (inibizione)	
7	Out 1	
8	Out 2	
9	Out 3	
10	Out 4 / bobina separatore C	

X2. Display / Cripto.

Il connettore X2 a 6 poli permette il collegamento al display. Sono supportati vari display con protocollo di comunicazione SPI o I2C bus (cfr. lista a fianco).



nr.	Descrizione
1	5 Vdc
2	Gnd
3	12 Vdc
4	Dati
5	Dati
6	Dati

Il display va impostato in fabbrica e/o modificato tramite il software Alberici.

I seguenti modelli sono supportati:

- MC 14499 a 4 digit, compatibile con RM924S SECI o con G-51.1092 NRI
- MC 14489 a 5 digit compatibile con G-53.0747 NRI
- MAX 7219 a 6 digit AL066 ALBERICI
- M643 a 8 digit LCD

**X3. CCTALK.** Il connettore X3 a 4 poli è usato per la comunicazione seriale **cctalk**® con la scheda macchina. Il protocollo è predisposto per funzionamento in modalità "slave", ed è descritto nel capitolo 6 del manuale tecnico. Questo connettore viene usato nei selettori standard per programmare via PC con il software dedicato Alberici.



nr.	Descrizione	
1	Dati	
2	Gnd	
3	NC	
4	12 Vdc	

ATTENZIONE! Montare la gettoniera da 90 a 95 gradi rispetto al piano. In ragione dei sofisticati sistemi antifrode utilizzati su questo prodotto, è indispensabile che non venga ostacolato il percorso della moneta fino alla sua totale fuoriuscita dalla gettoniera.

L'azienda declina qualsiasi responsabilità per malfunzionamenti causati dall'inosservanza di queste specifiche.

#### SETTAGGIO DELLE TOLLERANZE DI SELETTIVITA'

E' POSSIBILE AUMENTARE LA CAPACITA' DI DISCRIMINAZIONE DEL SELETTORE, SPOSTANDO IL DIP-SWITCH 6 DEL BANCO **SW2 IN POSIZIONE OFF** 

Posizione del dip-switch 6 (banco SW2)

Livello di tolleranza selettiva

ON **OFF**  Media selettività Alta selettività

## **INIBIZIONE DELLE MONETE PROGRAMMATE**

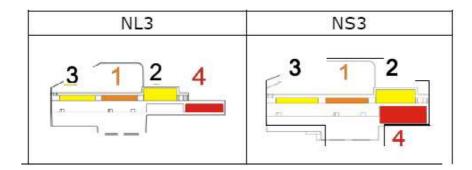
PER INIBIRE LE MONETE da 50 €c, 1 € e 2 €, SPOSTAÆ SU OFF IL DIP SWITCH CORRISPONDENTE (CONSULTARE LA TABELLA A FIANCO), QUINDI SPEGNERE E RIACCENDERE.

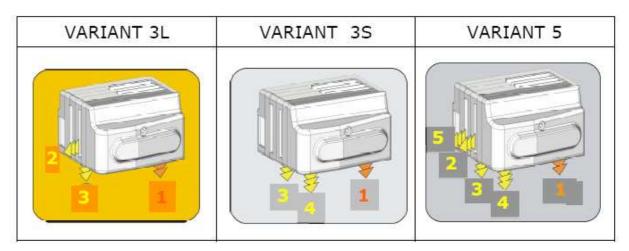
N° dip-switch moneta associata banco SW1 1 2.00 € 2 1,00€ 3 0,50 €



#### Pilotaggio dei separatori NL3, NS3, VARIANT e AVANT

Per impostare i comandi di separazione cctalk, fare riferimento alle direzioni di uscita dei seguenti modelli di separatore:

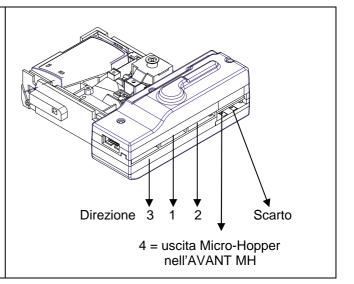




#### Separatori AVANT 4L (senza gestione resto) e AVANT MH

Per pilotare i separatori AVANT 4L e AVANT MH, è invece necessario che la gettoniera AL66 sia almeno della versione 1.3.0. Tale versione può essere predisposta per:

- a. pilotare i separatori precedenti ponendo in ON il dip-switch 1 del banco SW2
- pilotare il separatore AVANT 4L senza gestione del resto, o il separatore AVANT MH con gestione del resto (norme AAMS Comma 6A), ponendo in OFF il medesimo dip-switch.



### Implementazione comandi cctalk

Il manuale completo dei comandi ccTalk si trova all'interno del manuale tecnico, disponibile sul sito <a href="https://www.alberici.net">www.alberici.net</a> nella sezione Download e Manuali.

Nella pagina allegata è riportato lo schema riassuntivo dei comandi implementati.

Supported   Simple poll   Return ACK	Code		Command header	Note
254         FE         Simple poll         Return ACK           251         FO         Address clash         MDCES support           251         FC         Address clash         MDCES support, non volatile           251         FA         Address change         MDCES support, non volatile           250         FA         Address random         MDCES support, non volatile           249         F8         Request polling priority         [02][32] 100x50=500 ms           248         F8         Request status         [00] OK           245         F6         Request status         [00] OK           245         F7         Request serial number         "Coin Acceptor"           242         F2         Request serial number         From 0 to 16.777.215           240         F7         Request serial number         From 0 to 16.777.215           241         F1         Request software revision         U3.n p3.m" n=09 m=09           240         F2         Request death pot times         Supported           231         E7         Read obto states         bit0=0pto1, bit1=opto2           232         E8         Perform self test         Supported           232         E9         Perform self test				
Proceed		FE	Simple poll	Return ACK
Part	253	FD	Address poll	MDCES support
FA	252	FC	Address clash	MDCES support
F9   Request polling priority   [02][32] 100x50=500 ms   [00] 0k	251	FB	Address change	MDCES support, non volatile
248F8Request status[00] Ok246F6Request manufacturer id'Alberici'245F5Request equipment category id'Coin Acceptor'244F4Request product code'AL06V-c'243F3Request database version[01] remote file programming241F1Request serial numberFrom 0 to 16.777.215241F1Request software revision'U3.n p3.m' n=0.9, m=0.9240F0Test solenoidsCoil on for 100 ms238EETest output linesSupported237EDRead input linesSupported236ECRead opto statesbit0=opto1, bit1=opto2231E7Modify inhibit statusSupported231E7Modify inhibit statusSupported232E8Perform self testSupported231E7Request inhibit statusSupported229E5Request inhibit statusFive two byte event buffer229E6Request master inhibit statusSupported227E3Request master inhibit statusSupported228E4Request sorter override statusSupported229E7Request sorter override statusRigit1-MSB][Rict2][Rict3-LSB]219DBEnter PIN numberRok Tetru iPIN is correct210DBRequest data storage availabilityRoy IRIT PIN is correct210DBRequest other pathsCond polygologion polygologion, not available <td>250</td> <td>FA</td> <td>Address random</td> <td>MDCES support, non volatile</td>	250	FA	Address random	MDCES support, non volatile
Feb   Request manufacturer id   Feb   Request equipment category id   Feb   Request equipment category id   Feb   Request equipment category id   Feb   Request product code   Feb   Request software revision   Fem   Fem   Ot o 16.777.215   Fem	249	F9	Request polling priority	[02][32] 100x50=500 ms
F5   Request equipment category id   Cion Acceptor'	248	F8	Request status	[00] Ok
F4 Request product code F3 F3 Request database version F5 Request serial number F5 Request serial number F6 Tom 0 to 16.777.215 F7 Request software revision F7 Test solenoids F8 F2 Read F8 F8 Request Software revision F8 F8 F8 Red publishes F8 F8 Red publishes F9 F8 Red publishes F9 F8 Red publishes F9 F8 Red buffered cred. or error c. F9 F8 Request insertion counter F9 F8 Request insertion counter F9 F8 Request acceptance counter F9 F8 Request acceptance counter F9 F8 Request data block F9 F8 Red buffered publishes F9 F8 Request data block F9 F8 Request or publishes F9 F9 F8 Request data block F9 F9 F8 Request or publishes F9 F8 Request data block F9 F9 F8 Request or publishes F9 F9 F8 Request or publishes F9 F9 F8 Request data block F9 F9 F8 F9 F9 F8 F9	246	F6	Request manufacturer id	'Alberici'
F3 Request database version 242 F2 Request serial number 244 F1 Request software revision 245 F3 Request software revision 246 F0 Test solenoids 257 F0 Test solenoids 268 F2 Test output lines 269 F2 Read opto states 279 F2 Request software revision 270 F2 Read opto states 270 F2 Read opto states 271 F2 Request software revision 272 F2 Read opto states 273 F2 Read opto states 274 F2 Request inhibit status 275 F2 Read buffered cred. or error c. 276 F2 Read equest inhibit status 277 F2 Request master inhibit status 278 F2 Request master inhibit status 279 F2 F2 Request master inhibit status 270 F2 Request master inhibit status 270 F2 Request master inhibit status 271 F2 Request acceptance counter 272 F2 Request master inhibit status 273 F2 Request acceptance counter 274 F2 Request acceptance counter 275 F2 Request data storage availability 276 F2 Request data storage availability 277 F2 Read data block 278 F2 Request option flags 279 F2 Request option flags 270 F2 Request sorter paths 270 F2 Request sorter paths 271 F2 Request sorter paths 272 F2 Request reject counter 273 F2 Request reject counter 274 F2 Request reject counter 275 F2 Request reject counter 276 F2 Request reject counter 277 F2 Request data storage 278 F2 Request default sorter path 279 F2 Request reject counter 279 F2 Request reject counter 270 F2 Request terach status 270 F2 Request terach status 271 F2 Request reject counter 272 Request reject counter 273 F2 Request default sorter path 274 F2 Request default sorter path 275 F2 Request default sorter path 276 F2 Request default sorter path 277 F2 Request default sorter path 278 F2 Request default sorter path 279 F2 Request default sorter path 280 F2 Request default sorter path 281 F2 Request default sorter path 282 F2 Request default sorter path 283 F2 Request default sorter path 284 F2 Request default sorter 285 F2 Request default sorter path 286 F2 Request default sorter path 287 F2 Request default sorter path 288 F2 Request default sorter path 289 F2 Request default sorter path 290 F2 Request	245	F5	Request equipment category id	'Coin Acceptor'
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F1	243	F3	Request database version	[01] remote file programming
FO   Test solenoids	242	F2	Request serial number	From 0 to 16.777.215
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229 *E5Read buffered cred. or error c.Five two byte event buffer228E4Modify master inhibit statusbit0=0 inhibited1=enable, volatile227E3Request master inhibit statusSupported226E2Request insertion counter[Rjct1-MSB][ Rjct2][ Rjct3-LSB]225E1Request acceptance counter[Rjct1-MSB][ Rjct2][ Rjct3-LSB]221DDRequest sorter override status[FF] Normal sorting219DBEnter new PIN numberACK return if PIN is correct216D8Request data storage availability[00][00][00][00][00][00]], not available215D7Read data blockFor encrypted data exchange!214D6Write data blockFor encrypted data exchange!213D5Request option flagsbit0=0 cred. code format position210D2Modify sorter paths[coin pos][path], volatile209D1Request sorter pathsSupported201C9Request teach statusSupported202CATeach mode controlSupported203C3Request teach statusSupported196C4Request creation dateSupported195C3Request alarm counter[Rjct1-MSB][ Rjct2][ Rjct3-LSB]193C1Request fraud counter[Rjct1-MSB][ Rjct2][ Rjct3-LSB]198BCRequest default sorter path[01] No sorting188BCRequest dominate pathSupported173ADRequest	231	E7	Modify inhibit status	[inhibit 1][inhibit 2] total 16 position, volat.
228E4Modify master inhibit statusbit0=0 inhibited1=enable, volatile227E3Request master inhibit statusSupported226E2Request insertion counter[Rjct1-MSB][ Rjct2][ Rjct3-LSB]225E1Request acceptance counter[Rjct1-MSB][ Rjct2][ Rjct3-LSB]221DDRequest sorter override status[FF] Normal sorting219DBEnter new PIN numberACK return if PIN is correct216DBRequest data storage availability[O0][00][00][00][00], not available215D7Read data blockFor encrypted data exchange!214D6Write data blockFor encrypted data exchange!213D5Request option flagsbit0=0 cred. code format position210D2Modify sorter paths[coin pos][path], volatile201D2Modify sorter pathsSupported202CATeach mode controlSupported201C9Request teach statusSupported202CATeach mode controlSupported197C5Calculate ROM checksum[ROM-H][ROM-L][EEPR-H][EEPR-L]196C4Request areation dateSupported197C5Request meet counter[Rjct1-MSB][ Rjct2][ Rjct3-LSB]198C1Request fraud counter[Rjct1-MSB][ Frd2][ Frd3-LSB]199C0Request build code'AL66 V1.0'188BCRequest default sorter path[01] No sorting185B9Modify coin idSup	230	E6	Request inhibit status	Supported
227 E3 Request master inhibit status 226 E2 Request insertion counter 227 E1 Request acceptance counter 228 E1 Request acceptance counter 229 DD Request sorter override status 239 DB Enter new PIN number 240 Supported, non volatile 241 DA Enter PIN number 250 ACK return if PIN is correct 261 D8 Request data storage availability 262 D7 Read data block 273 D5 Request option flags 274 D6 Write data block 275 B7 Request option flags 276 D7 Request sorter paths 277 D7 Request sorter paths 278 D7 Request sorter paths 279 D1 Request sorter paths 289 D1 Request sorter paths 290 D1 Request sorter of Supported 290 CA Teach mode control 291 C9 Request teach status 292 CA Request reject counter 294 C2 Request last modification date 295 C3 Request last modification date 296 C4 Request fraud counter 297 C5 Calculate ROM checksum 298 C1 Request build code 299 C2 Request build code 290 C3 Request default sorter path 291 C2 Request default sorter path 292 C3 Request default sorter path 294 C4 Request default sorter path 295 C6 Request default sorter path 296 C7 Request default sorter path 297 C8 Request default sorter path 298 C9 Request default sorter path 299 C1 Request default sorter path 290 C1 Request default sorter path 291 C1 Request default sorter path 292 C1 Request default sorter path 293 C1 Request default sorter path 294 C2 Request default sorter path 295 C3 Request default sorter path 296 C4 Request default sorter path 297 C5 Request default sorter path 298 C6 Request default sorter path 299 C7 Request default sorter path 290 C7 Request default sorter path 291 C91 Request default sorter path 290 C91 Request default sorter path 291 C92 Request default sorter path 292 C93 Request default sorter path 294 C94 Request comms revision 296 C95 Request defess mode 297 C97 Request defess mode 298 Request comms revision 298 Request comms revision 299 Request comms revision 299 Request comms status variables 290 Request cou	229 *	E5	Read buffered cred. or error c.	Five two byte event buffer
226E2Request insertion counter[Rjct1-MSB][ Rjct2][ Rjct3-LSB]225E1Request acceptance counter[Rjct1-MSB][ Rjct2][ Rjct3-LSB]221DDRequest sorter override status[FF] Normal sorting219DBEnter new PIN numberSupported, non volatile216DAEnter PIN numberACK return if PIN is correct216DBRequest data storage availability[00][00][00][00][00], not available215D7Read data blockFor encrypted data exchange!214D6Write data blockFor encrypted data exchange!213D5Request option flagsbit0=0 cred. code format position210D2Modify sorter paths[coin pos][path], volatile209D1Request sorter pathsSupported201C9Request teach statusSupported201C9Request teach statusSupported201C9Request creation dateSupported195C3Request modification dateSupported194C2Request reject counter[Rjct1-MSB][ Rjct2][ Rjct3-LSB]193C1Request fraud counter[Frd1-MSB][ Frd2][ Frd3-LSB]192C0Request default sorter path[01] No sorting185B9Modify coin idSupported186B0Request alarm counterSupported176B0Request base year'2000'169A9Request address mode[84] addr. change non volatile(FLASH)	228	E4	Modify master inhibit status	bit0=0 inhibited1=enable, volatile
225 E1 Request acceptance counter 221 DD Request sorter override status 219 DB Enter new PIN number 218 DA Enter PIN number 219 DB Request data storage availability 210 D7 Read data block 210 D8 Request option flags 211 D7 Read exchange! 212 D7 Read sorter paths 213 D5 Request option flags 215 D7 Readust option flags 216 D8 Request option flags 217 D2 Modify sorter paths 218 D2 Modify sorter paths 219 D1 Request sorter paths 210 D2 Modify sorter paths 210 D2 Modify sorter paths 211 D5 Request sorter paths 212 D5 Request teach status 213 D5 Request teach status 214 D6 Write data block 215 D7 Read data block 216 For encrypted data exchange! 217 D2 Modify sorter paths 218 Coin pos][path], volatile 219 D1 Request sorter paths 210 D2 Modify sorter paths 210 D2 Modify sorter paths 211 C5 Calculate ROM checksum 210 C6 Request teach status 211 C7 Request creation date 212 C8 Request reation date 213 C9 Request last modification date 214 C9 Request fraud counter 215 C3 Request fraud counter 216 C4 Request default sorter path 217 C6 Request default sorter path 218 BC Request default sorter path 219 C1 Request default sorter path 210 C1 Request default sorter path 211 C1 Request default sorter path 212 C1 Request default sorter path 213 C1 Request default sorter path 214 C6 Request default sorter path 215 C7 Request default sorter path 216 C8 Request default sorter path 217 C9 Request default sorter path 218 B0 Request default sorter path 219 C1 Request default sorter path 210 C1 Request default sorter path 211 C1 Request default sorter path 212 C1 Request default sorter path 213 C1 Request default sorter path 215 C1 Request default sorter path 216 C8 Request default sorter path 217 C9 Request default sorter path 218 B0 Request default sorter path 219 C1 Request default sorter path 210 C1 Request default sorter path 210 C1 Request default sorter path 211 C1 Request default sorter path 212 C1 Request default sorter path 213 C1 Request default sorter path 214 C1 Request default sorter path 215 C1 Request default sorter path	227	E3	Request master inhibit status	Supported
221DDRequest sorter override status[FF] Normal sorting219DBEnter new PIN numberSupported, non volatile218DAEnter PIN numberACK return if PIN is correct216DBRequest data storage availability[00][00][00][00][00], not available215D7Read data blockFor encrypted data exchange!214D6Write data blockFor encrypted data exchange!213D5Request option flagsbit0=0 cred. code format position210D2Modify sorter paths[coin pos][path], volatile209D1Request sorter pathsSupported201C9Request teach statusSupported201C9Request teach statusSupported197C5Calculate ROM checksum[ROM-H][ROM-L][EEPR-H][EEPR-L]196C4Request last modification dateSupported195C3Request last modification dateSupported194C2Request reject counter[Rjct1-MSB][ Rjct2][ Rjct3-LSB]193C1Request build code'AL66 V1.0'188BCRequest default sorter path[01] No sorting185B9Modify coin idSupported186B0Request alarm counterSupported, one byte cumulative count173ADRequest thermistor readingIf thermistor is mounted170AARequest address mode[84] addr. change non volatile(FLASH)4O4Request comms revision[02][04][02	226	E2	Request insertion counter	[Rjct1-MSB][ Rjct2][ Rjct3-LSB]
219DBEnter new PIN numberSupported, non volatile218DAEnter PIN numberACK return if PIN is correct216D8Request data storage availability[00][00][00][00][00], not available215D7Read data blockFor encrypted data exchange!214D6Write data blockFor encrypted data exchange!213D5Request option flagsbit0=0 cred. code format position210D2Modify sorter pathsSupported209D1Request sorter pathsSupported201C9Request teach statusSupported201C9Request teach statusSupported197C5Calculate ROM checksum[ROM-H][ROM-L][EEPR-H][EEPR-L]196C4Request last modification dateSupported195C3Request last modification dateSupported194C2Request fraud counter[Rjct1-MSB][ Rjct2][ Rjct3-LSB]193C1Request fraud counter[Rjct1-MSB][ Frd2][ Frd3-LSB]192C0Request build code'AL66 V1.0'188BCRequest default sorter path[01] No sorting185B9Modify coin idSupported184B8Request coin idSupported176B0Request thermistor readingIf thermistor is mounted177AARequest address mode[84] addr. change non volatile(FLASH)404Request comms revision[02][04][02] ,level2, isue4.2303 </td <td>225</td> <td>E1</td> <td>Request acceptance counter</td> <td>[Rjct1-MSB][ Rjct2][ Rjct3-LSB]</td>	225	E1	Request acceptance counter	[Rjct1-MSB][ Rjct2][ Rjct3-LSB]
DA Enter PIN number ACK return if PIN is correct  216 D8 Request data storage availability 215 D7 Read data block  214 D6 Write data block  215 D5 Request option flags 216 D2 Modify sorter paths 217 D2 Modify sorter paths 218 D1 Request sorter paths 219 D1 Request sorter paths 210 D2 Modify sorter paths 210 D2 Modify sorter paths 211 D2 Modify sorter paths 212 CA Teach mode control 213 C5 Calculate ROM checksum 214 C6 Request teach status 215 C7 Request teach status 216 C8 Request creation date 217 C9 Request last modification date 218 C9 Request reject counter 219 C1 Request fraud counter 210 C2 Request fraud counter 210 C3 Request fraud counter 210 C4 Request fraud counter 210 C5 Request default sorter path 210 C6 Request default sorter path 211 C7 Request default sorter path 212 C8 Request default sorter path 213 C9 Request default sorter path 214 C9 Request default sorter path 215 C9 Request default sorter path 216 C9 Request default sorter path 217 C9 Request default sorter path 218 B8 Request coin id 218 B8 Request default sorter path 219 C9 Request alarm counter 210 C9 Request default sorter path 210 C9 Request default sorter path 211 C9 Request default sorter path 212 C9 Request default sorter path 213 C9 Request default sorter path 214 C9 Request default sorter path 215 C9 Request default sorter path 216 C9 Request default sorter path 217 AD Request default sorter path 218 C9 Request default sorter reading 219 C9 Request default sorter reading 210 C9 Request default sorter path 210 C9 Request default sorter path 210 C9 Request default sorter path 210 Request default sorter path 211 Rybertal at acchange! 212 Request default sorter path 213 C9 Request default sorter path 214 C9 Request default sorter path 215 C9 Request default sorter path 216 C9 Request default sorter path 217 C9	221	DD	Request sorter override status	[FF] Normal sorting
216D8Request data storage availability[00][00][00][00][00][00], not available215D7Read data blockFor encrypted data exchange!214D6Write data blockFor encrypted data exchange!213D5Request option flagsbit0=0 cred. code format position210D2Modify sorter paths[coin pos][path], volatile209D1Request sorter pathsSupported201C9Request teach statusSupported201C9Request teach statusSupported197C5Calculate ROM checksum[ROM-H][ROM-L][EEPR-H][EEPR-L]196C4Request creation dateSupported195C3Request last modification dateSupported194C2Request fraud counter[Rjct1-MSB][ Rjct2][ Rjct3-LSB]193C1Request fraud counter[Frd1-MSB][ Frd2][ Frd3-LSB]192C0Request build code'AL66 V1.0'188BCRequest default sorter path[01] No sorting185B9Modify coin idSupported186B8Request coin idSupported176B0Request alarm counterSupported, one byte cumulative count173ADRequest thermistor readingIf thermistor is mounted170AARequest base year'2000'169A9Request address mode[84] addr. change non volatile(FLASH)404Request comms revision[02][04][02] ,level2, isue4.23	219	DB	Enter new PIN number	Supported, non volatile
215 D7 Read data block For encrypted data exchange! 214 D6 Write data block For encrypted data exchange! 213 D5 Request option flags bit0=0 cred. code format position 210 D2 Modify sorter paths [coin pos][path], volatile 209 D1 Request sorter paths Supported 202 CA Teach mode control Supported 201 C9 Request teach status Supported 201 C5 Calculate ROM checksum [ROM-H][ROM-L][EEPR-H][EEPR-L] 202 CA Request creation date Supported 203 C4 Request last modification date Supported 204 C2 Request reject counter [Rjct1-MSB][ Rjct2][ Rjct3-LSB] 205 C1 Request fraud counter [Frd1-MSB][ Frd2][ Frd3-LSB] 206 Request default sorter path [01] No sorting 207 Request default sorter path [01] No sorting 208 BC Request default sorter path Supported 209 Request thermistor reading If thermistor is mounted 200 Request address mode [84] addr. change non volatile(FLASH) 200 Request comms revision [02][04][02] ,level2, isue4.2 201 Request comms status variables [Rx timeout][ Rx b. ignored][ Rx bad chks.]	218	DA	Enter PIN number	ACK return if PIN is correct
214 D6 Write data block For encrypted data exchange! 213 D5 Request option flags bit0=0 cred. code format position 210 D2 Modify sorter paths [coin pos][path], volatile 209 D1 Request sorter paths Supported 202 CA Teach mode control Supported 201 C9 Request teach status Supported 197 C5 Calculate ROM checksum [ROM-H][ROM-L][EEPR-H][EEPR-L] 196 C4 Request creation date Supported 195 C3 Request last modification date Supported 194 C2 Request reject counter [Rjct1-MSB][ Rjct2][ Rjct3-LSB] 193 C1 Request fraud counter [Frd1-MSB][ Frd2][ Frd3-LSB] 192 C0 Request build code 'AL66 V1.0' 188 BC Request default sorter path [01] No sorting 185 B9 Modify coin id Supported 186 B Request coin id Supported 187 B0 Request alarm counter Supported 188 BC Request thermistor reading If thermistor is mounted 189 AP Request address mode [84] addr. change non volatile(FLASH) 190 AP Request comms revision [02][04][02] ,level2, isue4.2 2 D2 Request comms status variables [Rx timeout][ Rx b. ignored][ Rx bad chks.]	216	D8	Request data storage availability	[00][00][00][00][00], not available
213 D5 Request option flags bit0=0 cred. code format position 210 D2 Modify sorter paths [coin pos][path], volatile 209 D1 Request sorter paths Supported 202 CA Teach mode control Supported 201 C9 Request teach status Supported 197 C5 Calculate ROM checksum [ROM-H][ROM-L][EEPR-H][EEPR-L] 196 C4 Request creation date Supported 195 C3 Request last modification date Supported 194 C2 Request reject counter [Rjct1-MSB][ Rjct2][ Rjct3-LSB] 193 C1 Request fraud counter [Frd1-MSB][ Frd2][ Frd3-LSB] 192 C0 Request build code 'AL66 V1.0' 188 BC Request default sorter path [01] No sorting 185 B9 Modify coin id Supported 184 B8 Request coin id Supported 186 B0 Request alarm counter Supported, one byte cumulative count 173 AD Request thermistor reading If thermistor is mounted 170 AA Request base year '2000' 169 A9 Request address mode [84] addr. change non volatile(FLASH) 4 04 Request comms revision [02][04][02] ,level2, isue4.2 3 03 Clear comms status variables [Rx timeout][ Rx b. ignored][ Rx bad chks.]	215	D7	Read data block	For encrypted data exchange!
210D2Modify sorter paths[coin pos][path], volatile209D1Request sorter pathsSupported202CATeach mode controlSupported201C9Request teach statusSupported197C5Calculate ROM checksum[ROM-H][ROM-L][EEPR-H][EEPR-L]196C4Request creation dateSupported195C3Request last modification dateSupported194C2Request reject counter[Rjct1-MSB][ Rjct2][ Rjct3-LSB]193C1Request fraud counter[Frd1-MSB][ Frd2][ Frd3-LSB]192C0Request build code'AL66 V1.0'188BCRequest default sorter path[01] No sorting185B9Modify coin idSupported184B8Request coin idSupported176B0Request alarm counterSupported, one byte cumulative count173ADRequest thermistor readingIf thermistor is mounted170AARequest base year'2000'169A9Request address mode[84] addr. change non volatile(FLASH)404Request comms revision[02][04][02] ,level2, isue4.2303Clear comms status variablesSupported202Request comms status variables[Rx timeout][ Rx b. ignored][ Rx bad chks.]	214	D6	Write data block	For encrypted data exchange!
209D1Request sorter pathsSupported202CATeach mode controlSupported201C9Request teach statusSupported197C5Calculate ROM checksum[ROM-H][ROM-L][EEPR-H][EEPR-L]196C4Request creation dateSupported195C3Request last modification dateSupported194C2Request reject counter[Rjct1-MSB][ Rjct2][ Rjct3-LSB]193C1Request fraud counter[Frd1-MSB][ Frd2][ Frd3-LSB]192C0Request build code'AL66 V1.0'188BCRequest default sorter path[01] No sorting185B9Modify coin idSupported184B8Request coin idSupported176B0Request alarm counterSupported, one byte cumulative count173ADRequest thermistor readingIf thermistor is mounted170AARequest base year'2000'169A9Request address mode[84] addr. change non volatile(FLASH)404Request comms revision[02][04][02] ,level2, isue4.2303Clear comms status variablesSupported202Request comms status variables[Rx timeout][ Rx b. ignored][ Rx bad chks.]	213	D5	Request option flags	bit0=0 cred. code format position
CA Teach mode control  201 C9 Request teach status  197 C5 Calculate ROM checksum  196 C4 Request creation date  195 C3 Request last modification date  194 C2 Request reject counter  195 C1 Request fraud counter  196 C4 Request fraud counter  197 C5 Request build code  198 BC Request default sorter path  199 Modify coin id  190 Request darm counter  191 Supported  192 Con Request default sorter path  193 C1 Request default sorter path  194 C2 Request default sorter path  195 C3 Request default sorter path  196 C4 Request default counter  197 C5 Request default sorter  198 BC Request default sorter  199 Product Supported  190 Request thermistor reading  190 AR Request base year  1900 Product Supported  190 AR Request address mode  190 AR Request address mode  190 AR Request comms revision  190 AR Request comms revision  190 AR Request comms status variables  2 D2 Request comms status variables  190 Request comms status variables  2 D2 Request comms status variables  2 Request comms status variables	210	D2	Modify sorter paths	[coin pos][path], volatile
C9 Request teach status  197 C5 Calculate ROM checksum  196 C4 Request creation date  197 C3 Request last modification date  198 C2 Request reject counter  199 C3 Request fraud counter  190 C4 Request fraud counter  191 C5 Request fraud counter  192 C6 Request build code  193 C7 Request default sorter path  194 C8 Request default sorter path  195 C9 Request default sorter path  196 C9 Request default sorter path  197 C9 Request default sorter path  198 B7 Request coin id  199 Supported  190 Supported  190 Supported  191 No sorting  192 Supported  193 Supported  194 Supported  195 Supported  196 Supported  197 Supported  198 Request alarm counter  199 Supported  199 Support	209	D1	Request sorter paths	Supported
197 C5 Calculate ROM checksum  196 C4 Request creation date 195 C3 Request last modification date 194 C2 Request reject counter 195 C3 Request fraud counter 196 C4 Request reject counter 197 C5 Request reject counter 198 C1 Request fraud counter 199 C0 Request build code 199 C0 Request default sorter path 190 C1 Request default sorter path 191 C1 Request default sorter path 192 C0 Request default sorter path 195 B9 Modify coin id 196 Supported 197 Supported 198 BC Request coin id 199 Request alarm counter 190 AP Request thermistor reading 190 AP Request base year 190 AP Request address mode 190 AP Request comms revision 190 AP Request comms revision 190 AP Request comms status variables 2 C1 Request comms status variables 2 C2 Request comms status variables 2 C3 Request comms status variables 2 C4 Request creation date 2 Supported 2 Supported 2 Supported 2 Supported 3 Request comms status variables 3 Supported 4 Request comms status variables 5 Request part [RX b. ignored] [RX bad chks.]	202	CA	Teach mode control	Supported
196 C4 Request creation date 195 C3 Request last modification date 194 C2 Request reject counter 195 C1 Request fraud counter 196 C2 Request fraud counter 197 C1 Request build code 198 BC Request default sorter path 199 C0 Request default sorter path 190 Request coin id 190 Request coin id 191 Supported 192 Supported 193 Supported 194 Supported 195 Supported 196 Request alarm counter 197 AD Request thermistor reading 198 Request coin id 199 AP Request dadress mode 199 AP Request address mode 199 AP Request comms revision 190 AP Request comms revision 190 AP Request comms status variables 2 Request comms status variables 2 Request comms status variables 2 Request comms status variables 3 Supported 3 Request comms status variables 3 Supported 3 Request comms status variables 4 Request comms status variables 5 Supported 6 Request comms status variables 7 Request comms status variables 8 Supported 9 Request comms status variables	201	C9	Request teach status	Supported
195 C3 Request last modification date 194 C2 Request reject counter 195 C1 Request fraud counter 196 C0 Request build code 197 C0 Request default sorter path 198 BC Request default sorter path 199 Request coin id 190 Request alarm counter 190 Supported 191 Supported 192 Supported 193 Supported 194 B8 Request coin id 195 Supported 196 Request alarm counter 197 AD Request thermistor reading 198 Request base year 199 C0 Request alarm counter 199 A9 Request default sorter path 190 Supported	197	C5	Calculate ROM checksum	[ROM-H][ROM-L][EEPR-H][EEPR-L]
194 C2 Request reject counter [Rjct1-MSB][ Rjct2][ Rjct3-LSB] 193 C1 Request fraud counter [Frd1-MSB][ Frd2][ Frd3-LSB] 192 C0 Request build code 'AL66 V1.0' 188 BC Request default sorter path [01] No sorting 185 B9 Modify coin id Supported 184 B8 Request coin id Supported 176 B0 Request alarm counter Supported, one byte cumulative count 173 AD Request thermistor reading If thermistor is mounted 170 AA Request base year '2000' 169 A9 Request address mode [84] addr. change non volatile(FLASH) 4 04 Request comms revision [02][04][02] ,level2, isue4.2 3 03 Clear comms status variables Supported 2 02 Request comms status variables [Rx timeout][ Rx b. ignored][ Rx bad chks.]	196	C4	Request creation date	Supported
193 C1 Request fraud counter [Frd1-MSB][ Frd2][ Frd3-LSB] 192 C0 Request build code 'AL66 V1.0' 188 BC Request default sorter path [01] No sorting 185 B9 Modify coin id Supported 184 B8 Request coin id Supported 176 B0 Request alarm counter Supported, one byte cumulative count 173 AD Request thermistor reading If thermistor is mounted 170 AA Request base year '2000' 169 A9 Request address mode [84] addr. change non volatile(FLASH) 4 04 Request comms revision [02][04][02] ,level2, isue4.2 3 03 Clear comms status variables Supported 2 02 Request comms status variables [Rx timeout][ Rx b. ignored][ Rx bad chks.]	195	C3	Request last modification date	Supported
192 C0 Request build code 'AL66 V1.0'  188 BC Request default sorter path [01] No sorting  185 B9 Modify coin id Supported  184 B8 Request coin id Supported  176 B0 Request alarm counter Supported, one byte cumulative count  173 AD Request thermistor reading If thermistor is mounted  170 AA Request base year '2000'  169 A9 Request address mode [84] addr. change non volatile(FLASH)  4 04 Request comms revision [02][04][02] ,level2, isue4.2  3 03 Clear comms status variables Supported  2 02 Request comms status variables [Rx timeout][ Rx b. ignored][ Rx bad chks.]	194	C2	Request reject counter	[Rjct1-MSB][ Rjct2][ Rjct3-LSB]
188BCRequest default sorter path 185[01] No sorting185B9Modify coin idSupported184B8Request coin idSupported176B0Request alarm counterSupported, one byte cumulative count173ADRequest thermistor readingIf thermistor is mounted170AARequest base year'2000'169A9Request address mode[84] addr. change non volatile(FLASH)404Request comms revision[02][04][02] ,level2, isue4.2303Clear comms status variablesSupported202Request comms status variables[Rx timeout][ Rx b. ignored][ Rx bad chks.]	193	C1	Request fraud counter	[Frd1-MSB][ Frd2][ Frd3-LSB]
B9 Modify coin id Supported  184 B8 Request coin id Supported  176 B0 Request alarm counter Supported, one byte cumulative count  173 AD Request thermistor reading If thermistor is mounted  170 AA Request base year '2000'  169 A9 Request address mode [84] addr. change non volatile(FLASH)  4 04 Request comms revision [02][04][02] ,level2, isue4.2  3 03 Clear comms status variables Supported  2 02 Request comms status variables [Rx timeout][ Rx b. ignored][ Rx bad chks.]	192	C0	Request build code	'AL66 V1.0'
184 B8 Request coin id Supported 176 B0 Request alarm counter Supported, one byte cumulative count 173 AD Request thermistor reading If thermistor is mounted 170 AA Request base year '2000' 169 A9 Request address mode [84] addr. change non volatile(FLASH) 4 04 Request comms revision [02][04][02] ,level2, isue4.2 3 03 Clear comms status variables Supported 2 02 Request comms status variables [Rx timeout][ Rx b. ignored][ Rx bad chks.]	188	BC	Request default sorter path	[01] No sorting
176 B0 Request alarm counter Supported, one byte cumulative count 173 AD Request thermistor reading If thermistor is mounted 170 AA Request base year '2000' 169 A9 Request address mode [84] addr. change non volatile(FLASH) 4 04 Request comms revision [02][04][02] ,level2, isue4.2 3 03 Clear comms status variables Supported 2 02 Request comms status variables [Rx timeout][ Rx b. ignored][ Rx bad chks.]	185	В9	Modify coin id	Supported
AD Request thermistor reading If thermistor is mounted  170 AA Request base year '2000'  169 A9 Request address mode [84] addr. change non volatile(FLASH)  4 04 Request comms revision [02][04][02] ,level2, isue4.2  3 03 Clear comms status variables Supported  2 02 Request comms status variables [Rx timeout][ Rx b. ignored][ Rx bad chks.]	184	B8	Request coin id	Supported
170 AA Request base year '2000' 169 A9 Request address mode [84] addr. change non volatile(FLASH) 4 04 Request comms revision [02][04][02] ,level2, isue4.2 3 03 Clear comms status variables Supported 2 02 Request comms status variables [Rx timeout][ Rx b. ignored][ Rx bad chks.]	176	B0	Request alarm counter	Supported, one byte cumulative count
169 A9 Request address mode [84] addr. change non volatile(FLASH) 4 04 Request comms revision [02][04][02] ,level2, isue4.2 3 03 Clear comms status variables Supported 2 02 Request comms status variables [Rx timeout][ Rx b. ignored][ Rx bad chks.]	173	AD	Request thermistor reading	If thermistor is mounted
4 04 Request comms revision [02][04][02] ,level2, isue4.2 3 03 Clear comms status variables Supported 2 02 Request comms status variables [Rx timeout][ Rx b. ignored][ Rx bad chks.]		AA	Request base year	'2000'
3 03 Clear comms status variables Supported 2 02 Request comms status variables [Rx timeout][ Rx b. ignored][ Rx bad chks.]	169	Α9	Request address mode	[84] addr. change non volatile(FLASH)
2 02 Request comms status variables [Rx timeout][Rx b. ignored][Rx bad chks.]	4	04	Request comms revision	[02][04][02] ,level2, isue4.2
	3	03	Clear comms status variables	Supported
1 01 Reset device Software reset	2	02	Request comms status variables	[Rx timeout][ Rx b. ignored][ Rx bad chks.]
	1	01	Reset device	Software reset

(\*) I codici di errore non vengono trasmessi a meno che non venga esplicitamente richiesto AL MOMENTO IN CUI SI ORDINA LA GETTONIERA. Vedere il manuale AL66 a pag. 42 per la lista completa dei codici errore.