Manufacturer: ekey biometric systems GmbH
Model: multi SE REG 4
Device Type: Fingerprint System

CONTACT SUPPORT: (please fill out carefully)

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NOTES:	

GENERAL INFORMATION

SIMPLWINDOWS NAME:	Ekey Multi UDP v1.0.usp
CATEGORY:	Miscellaneous Controller
VERSION:	V1.0
SUMMARY:	The module allows receiving information from the ekey network.
GENERAL NOTES:	The module allows receiving information from the ekey network. The ekey Converter UDP needs to be configured to report UDP packages to the Crestron processor. The protocol type: "multi". It is possible to add 1 terminal to the module (4 terminal means 4 modules). The terminal serial number needs to be entered in the corresponding parameter. The "Spacer" needs to be entered in the corresponding parameter (A spacer is a symbol defined by the user, which separates the individual data fields within the data packet). When information from a scanner is received it will be checked with the provided serial numbers and when a match is found, the information will be send to the corresponding terminal output. Each terminal provides: • User ID = defined in 'ekey multi controller' • USER NAME= defined in 'ekey multi controller' • USER STATUS • FINGER ID =Finger name

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	• KEY = Key ID • SERIAL NO. FS • NAME FS = Finger scanner name • ACTION 1…. Open 2… Rejection of unknown finger 3 … Rejection time zone A 4 … Rejection time zone B 5 … Rejection inactive 6 … Rejection "Only ALWAYS users" 7 … FS not coupled to CP 8 … digital input • INPUT ID When a scanned finger is not recognized the following values are received: • Serial FS • User id="Undefined" • User name="Undefined" • User status="Undefined" • Finger ID="Undefined" • Key="Undefined" • Door="Undefined" • Action="Rejection of unknown finger" • Input="no digital input"
CRESTRON HARDWARE REQUIRED:	Crestron 2/3 series Processor with a free Ethernet port to make the UDP connection.
SETUP OF CRESTRON HARDWARE:	Crestron 2/3 series Processor connected on the same Ethernet network.
VENDOR FIRMWARE:	2.1.11.24
VENDOR SETUP:	multi SE REG 4 connected to ekey Converter UDP UDP port = 8194
CABLE DIAGRAM:	RJ-45 TIA-568B (Ethernet Connection UDP/IP)

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CONTROL: (*examples below)

Signal/Function Name	D,S,A	Digital, Serial, Analog signal property definition.
Start_Communication	D	Make high to enable the UDP connection communication. (default=1)
UDP/IP_Communications_>>_RX$	S	Needs to be connected to the RX output on the UDP/IP communications client.

FEEDBACK: (*examples below)

$Packet_Type	S	Serial value containing "User data" packet type.
$USER_ID	S	Serial value containing last "User number 0000 – undefined"
$USER_STATUS	S	Serial value containing the last Username, alphanumeric
$FINGER_ID	S	Serial value containing last finger name: 1-> Left-hand little finger 2-> Left-hand ring finger 3-> Left-hand middle finger 4-> Left-hand index finger 5-> Left-hand thumb finger 6-> Right-hand thumb finger 7-> Right-hand index finger 8-> Right-hand middle finger 9-> Right-hand ring finger 0-> Right-hand little finger '-'-> No Finger
$KEY	S	Serial value containing last Key ID. 1-> Key 1 2-> Key 2 3-> Key 3 4-> Key 4 '-'-> Undefined
$SERIAL_FS	S	Serial value containing the last finger scanner serial number.

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$NAME_FS	S	Serial value containing the last Finger scanner name
$ACTION	S	Serial value containing the last action: 1-> Open 2-> Rejection of unknown finger 3-> Rejection time zone A 4-> Rejection time zone B 5-> Rejection inactive 6-> Rejection 'Only ALWAYS users 7-> FS not coupled to CP 8-> digital input
$INPUT_ID	S	Serial value containing '-' no digital input

PARAMETERS: (anything needed to be assigned inside program)

Spacer	S	Serial parameter containing the symbol defined by the user, which separates the individual data fields within the data packet
pSERIAL_FS	S	Serial parameter containing the serial number of finger scanner.

TESTING: (please fill out carefully)

OPS USED FOR TESTING:	MC3: 1.009.0029
SIMPL WINDOWS USED FOR TESTING:	4.02.48
DEVICE DB USED FOR TESTING:	45.05.003.00
CRES DB USED FOR TESTING:	57.00.001.00
SYMBOL LIBRARY USED FOR TESTING:	Symlib 897
SAMPLE PROGRAM:	Ekey Multi v1.0 Demo
REVISION HISTORY:	1

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