

# **KAREL** DSS **25-28**

**DIRECT STATION SELECT MODULE**

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**DIRECT STATION  
SELECT MODULE**

**TECHNICAL  
REFERENCE  
AND  
USER GUIDE**

**FEBRUARY-2010**



Version Table	
Software Version	Date/Version of Guide
AAA	08.02.2010/AAA

## **DSS25–28 TTKK REV – AAA / 08.02.2010**

KAREL reserves the right to make modifications in product features mentioned in this document for development and improvement purposes, without prior notice. Individual products may possess characteristics different from those that have been mentioned in this document, due to their differences in software and hardware versions.



**DSS25-28**



## ISSUES TO PAY ATTENTION TO

- Read this guide carefully before you put your device into use and keep it for later reference.
- Any mistake with the connections in your device may damage the device or your exchange. Especially the connection to the exchange must be made by the Authorized Technical Services. The explanations about connections in the user's guide have been included to give information only.
- Do not make any connection other than the CO connection to the KAREL telephone branch exchanges.
- There is no part that you can repair or maintain in your device; therefore call the authorized technical service in case of any malfunction.
- Keep your device away from direct sunlight.
- Do not let any liquid substance spill on your device.
- Do the exterior cleaning of your device with a slightly moistened piece of cloth.
- Do not apply any chemicals for cleaning.
- Please call your authorized reseller in case you would like to change the place of your device. Use its own packing to carry it.
- Please do not use exterior signal for the test operations or maintenance. Any signal which is used externally may damage your device.

## PREFACE

The chapters in this guide have been prepared in order to present detailed technical information to people who need technical-introduction-based information about the Digital DSS25-28 Direct Station Select Module, and in order to give information about programming and use of this module. By this way, one could understand abilities of the Digital Direct Station Select Module, how it is to be operated in accordance with customer demands and things that should be done in order to operate the panes in full performance.

*The module has been explained as DSS within the guide, for the sake of descriptive simplicity.*

The first chapter - "Technical Introduction" – It contains basic information about the structure of the Digital DSS25-28 Direct Station Select Module.

The second chapter – "Installation" – The methods to be followed for the installation of the DSS25-28 are explained. This chapter must definitely be read before the installation by the personnel who are to perform the installation.

The third chapter – "Basic Structure" – This chapter explains the things to be done after the DSS25-28 Module is programmed. The chapter also includes information about use of the programmed keys.

The forth chapter – "Key Programming" – This chapter gives brief information about the software features that will enrich functions of the Digital DSS25-28 Direct Station Select Module and that could be applied to meet daily communication needs of customers more comprehensively.

Best Regards,

KAREL

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# TECHNICAL FEATURES

## INTRODUCTION

DSS25-28 is the Direct Station Select Module of KAREL and designed for ST26, ST30 digital telephones with in the context of the KAREL DS Series exchanges. The aim of this product is to make easier for user to access other extensions, lines and some features of the exchange and also user can monitor the situation of exchanges and lines.

The digital DSS25-28 module enables the users to perform the functional operations, as well as providing monitoring of the statuses of functions that have been assigned to the keys, by a single key through its special-purpose keys and display on it.

The Digital DSS25-28 Direct Station Select Module consists of a keypad only. The keypad of the DSS25-28 module consists of 28 programmable (14x2 matrix) special-purpose keys and there is a LED for each key. The functions that have been assigned to the keys can be monitored through the LEDs on it. All of those 28 keys are used for assigning the access codes and there is no need to make any programming through the DSS25-28 module.

## COMPATIBILITY

The Digital DSS25-28 Direct Station Select Module is compatible with the entire range of DS Series Systems. However DSS25-28 module should be used only with ST26 and ST30 Digital Telephone Sets.

In order to supply the continuity of regular operation, the hardware versions of the cards and that will be connected to the DSS25-28 Digital Direct Station Select Module should be as the followings;

- The hardware version of EX200 (0/16U) Digital Extension Module should be ABF or better,
- The hardware version of EX200 (0/8U) Digital Extension Module should be BAF or better,



## PARTS LIST ON DELIVERY

Parts that come within the package of the Direct Station Select Module:

- DSS25-28 Direct Station Select Module
- Technical Reference and User Guide CD
- Accessory Package for Telephone Connection:
  - Console Connection Cable
  - Metal Connection Piece
  - Fixing (Connection) Screws (4 Units)
  - Mounting Template

## BASIC FEATURES

- The communication between ST digital phone and DSS module is an asynchronous serial channel communication.
- DSS module is used the output of the digital extension of the DS Series Systems and directly connect to the related ST digital phone set.
- Two-wire structure is employed for the communication between the DSS and ST phone set.
- There is no need to specifically introduce the DSS module to the system so the terminal number setting is not required. DSS module directly communicates with the system over the ST digital phone.
- All required programming for the digital DSS module are made through the connected ST digital phone and all settings are saved to this ST phone.

## TECHNICAL SPECIFICATIONS

Weight: 440 g

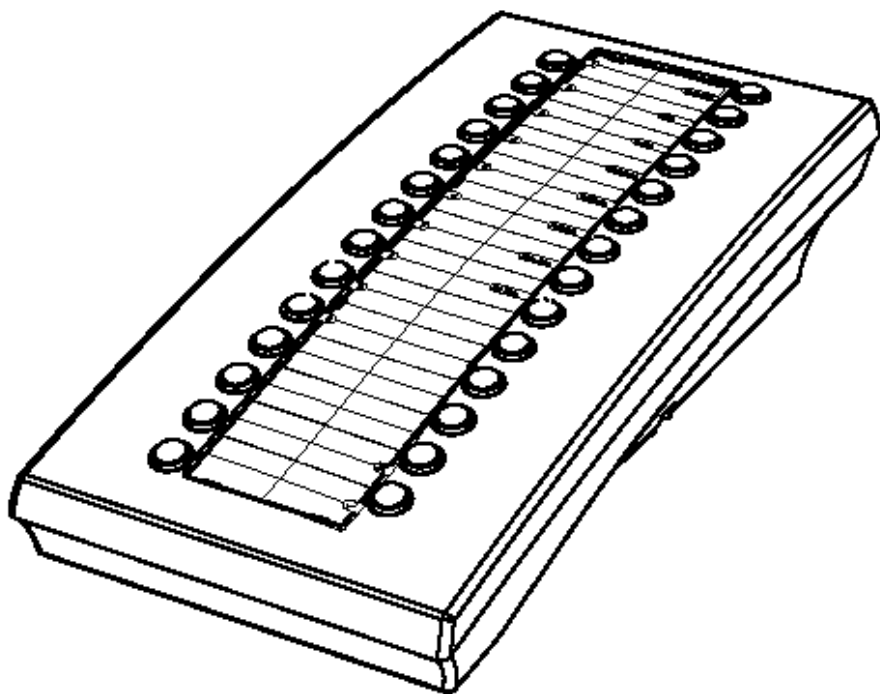
Dimensions: Width: 112mm, Length: 229mm, Height: 52mm

Operation Temperature: 0-40 °C

Storage Temperature: -20+60 °C

Humidity: 10-%80

## GENERAL APPEARANCE

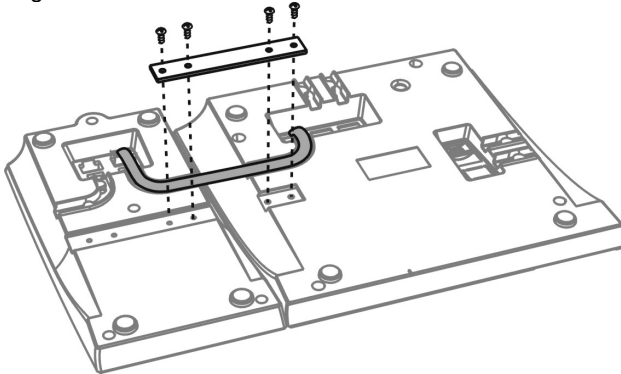


# INSTALLATION

The connection of the Digital DSS25-28 Direct Station Select Module with the ST Digital Telephone Sets is provided over the connection point on the ST26 and ST30 Digital Telephone Sets. Only one DSS module can be connected to each ST Digital Telephone Set. It is not possible to operate more than one DSS25-28 module over the same telephone set.



DSS25-28 Direct Station Select Module is connected to the DSS connection point on the ST26 and ST30 Digital Telephone Sets with the two-wire connection cable included in delivery package of the module.



In order to maintain the physical connection between the DSS25-28 module and the ST digital telephone sets, the metal connection piece, which is included in the delivery package, must be fixed with the screws.

# BASIC STRUCTURE

## KEYPAD

The keypad of the digital DSS28 module consists of 28 programmable keys in 14x2 matrix structure.

Since the programming of keys are directly made through the connected ST digital phone, there is no need to make any programming or setting over the DSS module. All required settings are made through the ST26 and ST30 Digital Telephone Set.

## LED STATUS

Each of 28 keys on DSS28 module can be programmed for a function and the status of this function is shown with a red LED.

In the normal operation mode, you can trace the function status of the keys as given below:

<b>Extension Status</b>	<b>LED</b>
On Hook	Off
Busy	Continuously On
Ringing	Blinking
Parked	Continuously On

<b>Line Status</b>	<b>LED</b>
Idle	Off
Busy	Continuously On
Incoming call	Blinking
Parked	Blinking fast

## UTILIZATION

There are some facilities for different situations in order to use the programmable keys on DSS28 module.

It is enough to press the related programmed key to activate the programmed facility. If an extension or line number is assigned to the key, the call is started just by pressing this key. During the conversation, if this key is pressed again the call is put on hold. By this way, the operations like “Conference”, “Call Transfer” and etc. can be carried out easily.

# KEY PROGRAMMING

There are 28 programmable keys and the programming of DSS25-28 module is made directly over the ST digital telephone set from Telephone Settings> Key Programming. Keys will be activated after exiting from programming mode.

These keys can not be deleted one by one however another feature or extension or line can be assigned to those keys without any error message. All assignments to keys can be deleted from Telephone Settings> Key Programming > Auto Setting > Clear all.

## Extension

You can reach an extension you call frequently through a single key by programming her/his number on that key.

- ◆ **Press Key:** Press the key which is wanted to be programmed.
- ◆ **Extension No:** Then the “Extension No=”menu comes to view. In this menu, the display cursor enables data entry. After the user enters the extension number by using the numeric keypad, s/he confirms the extension number s/he has entered by pressing the “Accept” key. The user can enter an extension number with at most 8 digits, when a wrong number is entered, system will give an error.

If entered number is programmed to another key before, the previous key will be deleted and new key will be programmed for that number.

An extension number can be assigned to a single key only. After the programming mode is exited and those keys are pressed, the extension that has been stored on the key is directly called. In addition to the calling function, status of the extension, which has been programmed as the first function of the programmable keys can be viewed by the LED next to it.

## Line

It enables you to program a specific line number on a key. By pressing that key, you can access the line that has been programmed on the key and make a call (provided that it is vacant) and you can access that number by a single key.

- ◆ **Press Key:** Press the key which is wanted to be programmed
- ◆ **Line No:** If a determined line number is entered and confirmed, then that line number will have been assigned to that key.

The lines, which exist on the system, should be entered. These numbers can be 8 digit at most. A line access code can be assigned to a single key only. After the programming mode has been exited, upon pressing those keys, it is possible to access the programmed line, without pressing 9.

Status of the line, which has been programmed as the first function of the key can be viewed by the LED next to it.

## Executive Key

Any extension who diverts his/her calls to user, can be assigned to that key. Extension who diverts his/her calls, could be thought as executive and priority can be given to the incoming calls to that executive. At that situation when user is on the phone, s/he can easily notice that there is an incoming call to executive and s/he can answer that call with a single key. To program executive key:

- ◆ **Press Key:** Press the key which is wanted to be programmed
- ◆ **Executive No:** Enter the extension number which is selected as executive.

After the extension number is accepted as executive, the message “Successful” will appear for 1 second and a tone will be heard.

### Note:

- An extension can be assigned to more than one executive key. In case of the busyness, if there are more than one incoming calls at the same time, those calls can be assigned to the executive keys starting from the last
- Different extension numbers can be assigned to different keys as executive. If those assigned executives call each other, calls can not be monitored by the executive keys.

## Private Pool

You can program 9 line numbers, which you call most frequently on the private pool of your telephone.

- ◆ **Press Key:** Press the key which is wanted to be programmed.
- “ **Register no:** In this menu, the display cursor enables data entry. Here, entries of the indices that could be assigned are done as single digit in the range 1-9. The entered index is automatically detected and then the number that you would like to be assigned to the key is prompted by the “no=” menu.
- “ **No:** Any desired line number could be entered. In stead of entering 9 at the beginning of the numbers which are assigned, those calls will be made by using 9 automatically. After exiting the programming mode, when these keys are pressed, the private pool number that has been assigned to the key is directly called.

## Common Pool

Line numbers that have been stored in the common pool memory fields with number 000-499 by the operator can easily be assigned to the programmable keys.

- ◆ **Press Key:** Press the key which is wanted to be programmed.
- ◆ **Register No:** Indices that belong to the line numbers, which have been entered into the common pool of the exchange, are assigned to the programmable keys by this menu option. After exiting the programming mode, when these keys are pressed, the common pool number that has been assigned to the key is directly

called. (The indices should be entered 3 digits ad “001” because of DS200 Exchange's properties)

## Feature

It provides making use of some functions that have been defined in the system by pressing a single key. For example, in order for the call requests coming to you to ring at some other extension, you can press the key that has previously been programmed and enter the number of the extension, to which you would like your calls to be forwarded.

Features are listed below:

- Follow Me Key
- Call Back Key
- Do Not Disturb Key
- Phone Lock Key
- Conference Key
- Night Mode (only for operator)
- Message Listen (if EVM module exists)
- Page Key
- Call Collect Key

- ◆ **Press Key:** Press the key which is wanted to be programmed.
- ◆ After that, the feature options menu is reached. The desired feaure is selected from that menu and it will be confirmed by pressing the “Accept” key. Then the LED which belongs to key, will turn on. If desired feature is assigned before, this action will not be accepted.

## Feature Code

Any code of 8 digits can be assigned to the programmable keys by using this menu option.

- ◆ **Press Key:** Press the key which is wanted to be programmed.
- ◆ **Code:** This code may be one, such as 85 (Follow Me) that could be applied by a user, one, such as 8389 (Wake Up service) that could be applied by the operator or one, such as 877777 (Entry to exchange programming) that could be applied by the system supervisor. If the entered number is none of these, then it is detected as an extension number and that extension is called whenever that key is used.

**NOTÊ:** For more information about programming the module, please look at the Technical Reference and User Guide of your Digital ST Series Telephone.

